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Your Personal Exams Guide



NDA



CDS



SSC CGL



CBSE UGC NET



IAS



SSC CHSL



CTET



MPSC



AFCAT



CSIR UDC NET



IBPS PO



UP POLICE



SSC MTS



SBI PO



BPS



UP TET



IBPS RRB



IBPS CLERK



IES



UPSC CAPF



SSC Stenogr..



RRB NTPC



SSC GD



RBI GRADE B



RBI Assistant



DSSSB

SSC MTS Previous Year Paper (Held on: 21 July 2022 Shift 3)

Total Time: 1 Hour : 30 Minute

Total Marks: 100

Instructions

Sl No.	Section Name	No. of Question	Maximum Marks	Negative Marks	Positive Marks
1	General Intelligence & Reasoning	25	25	0.25	1
2	Numerical Aptitude	25	25	0.25	1
3	General English	25	25	0.25	1
4	General Awareness	25	25	0.25	1

- 1.) A total of 90 minutes is allotted for the examination.
- 2.) The server will set your clock for you. In the top right corner of your screen, a countdown timer will display the remaining time for you to complete the exam. Once the timer reaches zero, the examination will end automatically. The paper need not be submitted when your timer reaches zero.
- 3.) There will, however, be sectional timing for this exam. You will have to complete each section within the specified time limit. Before moving on to the next section, you must complete the current one within the time limits.

General Intelligence & Reasoning

1. In a certain code language, 'STOPER' is written as 'XNTJJL' and 'GANOPY' is written as 'LUSIUS'. How will 'FITAND' be written in that language? (+1, -0.25)

- a. KDYUSX
- b. KCYUXS
- c. KCYUSX
- d. KCYVSX

2. Select the number from among the given options that can replace the question mark (?) in the following series. (+1, -0.25)

410, 210, 110, 60, 35, ?

- a. 23
- b. 25
- c. 20
- d. 22.5

3. Select the option that is related to the fifth term in the same way as the second term is related to the first term and the fourth term is related to the third term. (+1, -0.25)

H64 : J100 :: L144 : N196 :: U441 : ?

- a. W582
- b. W529

c. V484

d. V221

-
4. Read the given statements and conclusions carefully. Assuming that the information given in the statements is true, even if it appears to be at variance with commonly known facts, decide which of the given conclusions logically follow(s) from the statements. (+1, -0.25)

Statements:

I. No R is a G.

II. All G's are H.

Conclusions:

I. No H is a R.

II. No G is a R.

- a. Only conclusion II follows.
- b. Neither conclusion I nor II follows.
- c. Both conclusions I and II follow.
- d. Only conclusion I follows.

-
5. Select the number from among the given options that can replace the question mark (?) in the following series (+1, -0.25)

803, 844, 885, 926, ?

- a. 967
- b. 977

c. 969

d. 957

-
6. Select the option that is related to the third letter-cluster in the same way as the second letter-cluster is related to the first letter-cluster. (+1, -0.25)

RS : QT :: AK : ?

a. IC

b. HD

c. HC

d. ID

-
7. In a certain code language, 'PINT' is coded as '60', and 'HOME' is coded as '42'. How will 'TONE' be coded in that language? (+1, -0.25)

a. 54

b. 55

c. 56

d. 53

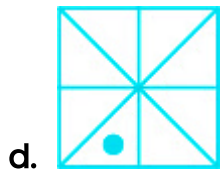
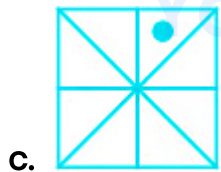
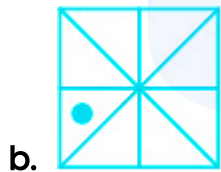
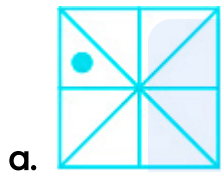
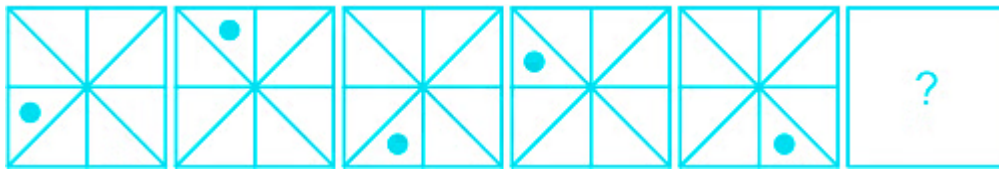
-
8. By interchanging which two signs will the given equation be correct? (+1, -0.25)

$$11 \div 77 + 253 \times 23 - 800 = 58$$

a. - and ÷

- b. \times and \div
- c. $+$ and $-$
- d. $-$ and \times

9. Select the figure from among the given options that can replace the question mark (?) in the following series. (+1, -0.25)



10. Select the option in which the numbers shares the same relationship as that shared by the numbers in the given set. (+1, -0.25)

(32, 70, 108)

- a. (44, 82, 124)
- b. (34, 72, 122)
- c. (42, 80, 118)
- d. (38, 76, 116)

11. Which two signs need to be interchanged to make the following equation correct? (+1, -0.25)

$$96 - 12 \div 6 + 3 \times 5 = 17$$

- a. \div and $-$
- b. \div and \times
- c. $+$ and $-$
- d. $+$ and \times

Your Personal Exams Guide

12. In a certain code language, 'GERMAN' is written as 'HFSLZM', and 'RUSTIC' is written as 'SVTSHB'. How will 'DIVIDE' be written in that language? (+1, -0.25)

- a. CHUJEF
- b. CHUHCD
- c. EJWJEF
- d. EJWHCD

13. Select the option that is related to the third letter-cluster in the same way as the second letter-cluster is related to the first-letter cluster. (+1, -0.25)

CWIS : VBPF :: AOLD : ?

- a. CQUG
- b. CXJU
- c. XJMU
- d. EXUW

14. Select the figure from the options that can replace the question mark (?) and complete the pattern. (rotation is not allowed) (+1, -0.25)

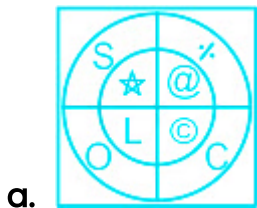
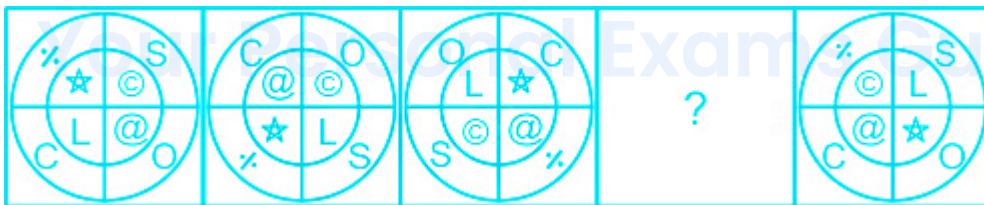
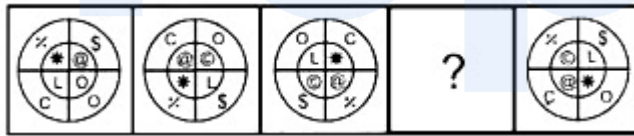


- a.
- b.
- c.
- d.

15. Amit, Bablu, Ramesh, Deepak, Imran, Sunil, and Sanju are sitting around a circular table facing opposite to the centre. Amit does not sit adjacent to Imran and Sanju. Bablu does not sit adjacent to Amit. Sanju sits second to the left of Imran. Ramesh sits fourth to the left of Amit. Deepak and Bablu sit adjacent to each other. Who sits immediate right of Amit? (+1, -0.25)

- a. Bablu
- b. Sunil
- c. Ramesh
- d. Sanju

16. Select the figure from among the given options that can replace the question mark (?) in the following series. (+1, -0.25)



b.



c.



d.

17. Study the given pattern carefully and select the number from among the given options that can replace the question mark (?) in it. (+1, -0.25)

(7, 9, 130), (11, 9, ?), (16, 8, 320)

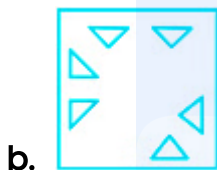
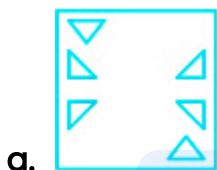
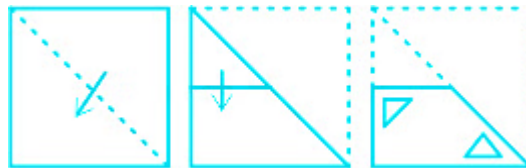
- a. 202
- b. 220
- c. 188
- d. 160

18. In a certain code language, 'POM' is coded as '43', and 'HAN' is coded as '22'. How will 'BRO' be coded in that language? (+1, -0.25)

- a. 36
- b. 33
- c. 35

d. 34

19. The sequence of folding a piece of paper and the manner in which the folded paper has been cut is shown in the following figures. How would this paper look when unfolded? (+1, -0.25)



20. Five friends P, Q, R, S and T are sitting around a circular table facing towards the centre (not necessarily in the same order). Q is second to the left of T. S is the immediate neighbour of Q and T. R is not the immediate neighbour of Q. While counting from the left of Q, how many friends are sitting between Q and S? (+1, -0.25)

- a. One
- b. Two
- c. Three
- d. Four

21. Read the given statements and conclusions carefully. Assuming that the information given in the statements is true, even if it appears to be at variance with commonly known facts, decide which of the given conclusions logically follow(s) from the statements. (+1, -0.25)

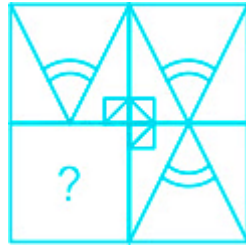
Statements:

- Some holders are parameters.
- Some chambers are parameters.
- Some parameters are not measures.

Conclusions:

- I. Some measures are chambers.
 - II. Some holders are chambers.
- a. Only conclusion I follows
 - b. Both conclusions I and II follow
 - c. Only conclusion II follows
 - d. Neither conclusion I nor II follows

22. Select the option that can replace the question mark (?) in the given figure and complete the pattern. (+1, -0.25)

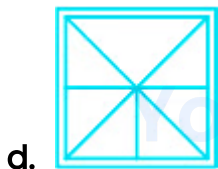
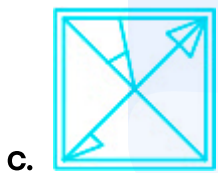


23. Select the letter-cluster from among the given options that can replace the question mark (?) in the following series. (+1, -0.25)

BJT, DHV, FFX, ?, JBB

- a. HDY
- b. HCZ
- c. HDZ
- d. HCY

24. Select the option in which the given figure is embedded. (Rotation is not allowed) (+1, -0.25)



25. Among five persons A, B, C, D and E, who are of different ages, A is younger than only D and E. E is younger than D and older than B. C is the youngest. Who is the fourth oldest? (+1, -0.25)

- a. C
- b. D
- c. E

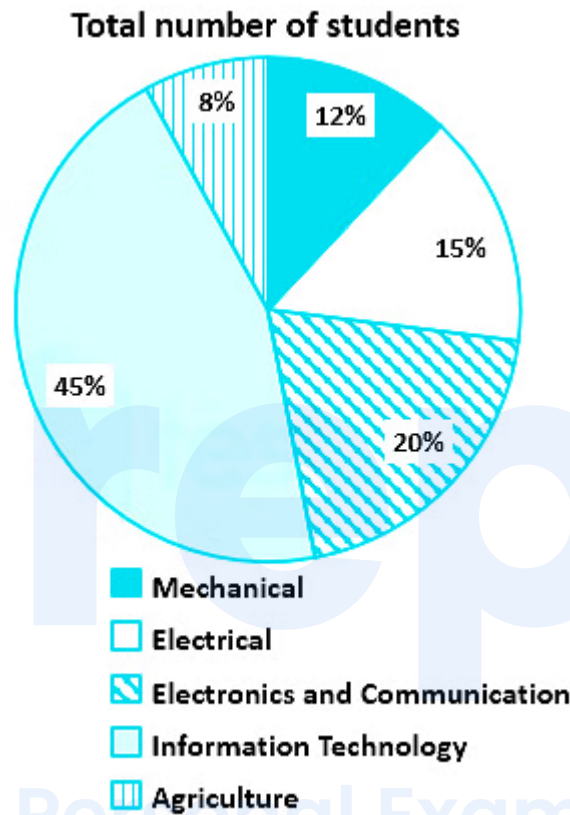
d. B

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Numerical Aptitude

26. The following pie chart gives the percentages of the number of students studying in different streams in an engineering college. There are 5000 students in the college in all. (+1, -0.25)



The college decided to give ₹300 per student to each stream for the purchase of teaching materials. How much will the Electronics and Communication stream get?

- a. ₹2,25,000
- b. ₹1,80,000
- c. ₹3,00,000
- d. ₹1,20,000

27. The marked price of an item is 25% more than its selling price. The selling price of the same item is 20% more than its cost price. The marked price of that item is what percentage more than its cost price? (+1, -0.25)
- a. 45%
 - b. 35%
 - c. 50%
 - d. 40%

-
28. Find the total surface area of a closed hemisphere whose diameter is 7 cm. [Use $\pi = \frac{22}{7}$] (+1, -0.25)
- a. 77 cm^2
 - b. 154 cm^2
 - c. 110 cm^2
 - d. 115.5 cm^2

-
29. The average of 12 numbers is 15, and the average of the first four numbers is 13. What is the average of the remaining numbers? (+1, -0.25)
- a. 16
 - b. 14
 - c. 12
 - d. 18

30. A retailer buys a used laptop for ₹22,500. His overhead expenses are ₹1,500. He sells the laptop for ₹30,000. The profit percentage of the retailer is: (+1, -0.25)
- is:
- a. 50%
 - b. 25%
 - c. 10%
 - d. 52%

31. The following table shows the marks secured (out of 50) in two subjects by a number of students of a school. (+1, -0.25)

Subject	Marks out of 50				
	40 and above	30 and above	20 and above	10 and above	0 and above
Hindi	80	120	150	540	1200
English	40	140	180	960	1200

What is the ratio of the number of students who scored 40 and above in Hindi to the number of students who scored 20 and above in English?

- a. 3 : 4
- b. 4 : 9
- c. 9 : 4

d. 4 : 3

32. Kavita can complete a piece of work alone in 12 hours, while Komal can complete the same work alone in 18 hours. Kavita works alone for the first 4 hours and leaves. After that, Komal comes and completes the remaining work by herself. How much time did Komal take to finish the remaining work? (+1, -0.25)

a. 15 hours

b. 10 hours

c. 16 hours

d. 12 hours

33. Two wires of lengths 10 m 54 cm and 11 m 56 cm are both cut into pieces of length x cm each, where x is an integer. Find the maximum value of x . (+1, -0.25)

a. 42

b. 56

c. 34

d. 28

34. Rahul's monthly income is ₹1,50,000. Of this, he saves ₹1,500. Find the percentage of his savings. (+1, -0.25)

a. 4%

b. 2%

c. 3%

d. 1%

35. For a candidate to pass a examination, he must score 60% marks. If he scored 345 and failed by 15 marks, then what are the total marks for the examination? (+1, -0.25)

a. 400

b. 480

c. 600

d. 540

36. What is the length of the longest pole that can fit itself in a hall 60 feet long, 30 feet broad and 20 feet high? (+1, -0.25)

a. 70 feet

b. 20 feet

c. 50 feet

d. 30 feet

37. What will be average of all the odd numbers between 8 and 32? (+1, -0.25)

a. 21

b. 18

c. 20

d. 19

38. If $P = \frac{5}{6}Q$ and $Q = \frac{4}{5}R$, What is $2P : 3Q : 4R$? (+1, -0.25)

- a. 5 : 9 : 15
- b. 9 : 5 : 6
- c. 8 : 9 : 16
- d. 6 : 8 : 15

39. A boat can travel 21 km in 3 hours going upstream. It can travel 55 km in 5 hours going downstream. What is the speed of the stream? (+1, -0.25)

- a. 2.5 km/h
- b. 3.5 km/h
- c. 3 km/h
- d. 2 km/h

40. Two numbers are in the ratio 3 : 5. If 4 is subtracted from each of these two numbers, the new numbers then are in the ratio 4 : 7. Find the smaller of the two original numbers. (+1, -0.25)

- a. 2
- b. 18
- c. 4
- d. 36

41. A, B and C together can complete a work in 10 days. A and B together can do the same work in 12 days. If A, B and C received ₹9,000 for doing the (+1, -0.25)

work together, then what was the share of C from the above amount?

- a. ₹2,250
- b. ₹3,000
- c. ₹3,750
- d. ₹1,500

42. What is the value of $\frac{75}{28} \times \frac{7}{12} + [\frac{5}{12} + \{\frac{5}{7} + (\frac{8}{12} \text{ of } \frac{36}{24} - \frac{1}{2})\}]$? (+1, -0.25)

- a. $\frac{1811}{335}$
- b. $\frac{1085}{339}$
- c. $\frac{1073}{336}$
- d. $\frac{1561}{337}$

43. What is the value of a in the following equation? (+1, -0.25)

$$34 + 16 - a \times [40 \div 5 - 3] = 15$$

- a. 5
- b. 7
- c. 9
- d. 6

44. A man completes his journey in 6 hours. He covers half the distance at 10 km/h and the rest at 20 km/h. The length of the journey is: (+1, -0.25)

- a. 30 km
- b. 10 km
- c. 80 km
- d. 20 km

45. The radius of the base and the height of a closed cylinder are 14 cm and 14 cm, respectively. The total surface area of the cylinder is equal to the area of a circle. What will be the diameter of the circle? [Use $\pi = \frac{22}{7}$] (+1, -0.25)

- a. 56 cm
- b. 28 cm
- c. 14 cm
- d. 35 cm

46. A sum of ₹7,000 deposited at compound interest becomes triple of itself after 4 years. How much will the amount be after 12 years? (+1, -0.25)

- a. ₹49,000
- b. ₹63,000
- c. ₹1,89,000
- d. ₹84,000

47. A shopkeeper marks up his price by 12% and then allows a 12% discount. What is his profit or loss percentage? (+1, -0.25)

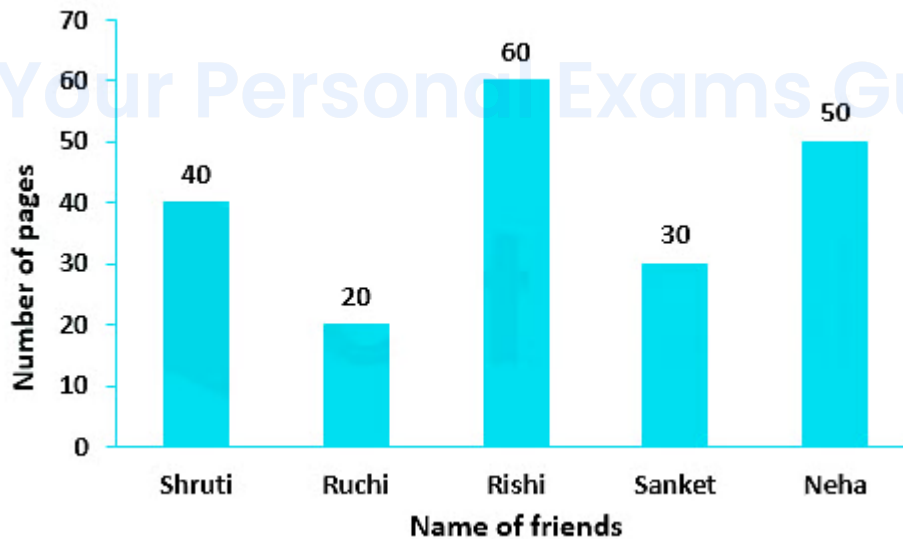
- a. 1.44% loss

- b. 1.2% profit
- c. 6% profit
- d. 4% loss

48. The average of nine consecutive even numbers is 24. What is the average of the smallest three of these 9 given numbers? (+1, -0.25)

- a. 21
- b. 20
- c. 18
- d. 19

49. The following bar graph shows the number of pages read by five friends when they went to a library. (+1, -0.25)



In percentage terms, how many more pages did Rishi read than Neha?

- a. 10%

- b. 15%
- c. 5%
- d. 20%

50. A sum of money amounts to 5 times of itself in 20 years, when invested at $(+1, -0.25)$ a certain rate of simple interest per annum. What is the rate of simple interest per annum that is on offer?

- a. 12.5%
- b. 15%
- c. 25%
- d. 20%

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Your Personal Exams Guide

General English

51. The following sentence has been divided into parts. One of them may contain an error. Select the part that contains the error from the given options. If you don't find any error, mark 'No error' as your answer. (+1, -0.25)

The young boy tried to jerk out of the way, / but she grabbed him and began / rubbing the tip of his nose to get the stain off.

- a. rubbing the tip of his nose to get the stain off
 - b. but she grabbed him and began
 - c. The young boy tried to jerk out of the way
 - d. No error
-
52. Select the most appropriate synonym of the given word. (+1, -0.25)

Revile

- a. Silence
 - b. Incite
 - c. Discourage
 - d. Abuse
-

53. Select the most appropriate meaning of the underlined idiom in the given sentence. (+1, -0.25)

Stop flogging a dead horse and concentrate on your career.

- a. To fall in love quickly

- b. To waste time on useless things
 - c. To make no progress
 - d. To go on trips repeatedly
-

54. Select the INCORRECTLY spelt word. (+1, -0.25)

- a. Autocrecy
 - b. Anarchy
 - c. Bureaucracy
 - d. Autonomy
-

55. Select the most appropriate option to fill in the blank. (+1, -0.25)

We need to _____ for next week, so are you in or out?

- a. make a mistake
 - b. make noise
 - c. make a mess
 - d. make plans
-

56. Select the option that will improve the underlined part of the given sentence. In case no improvement is needed, select 'No improvement required'. (+1, -0.25)

The plants readily respond to these stimulus.

- a. readily respond to these stimuli
 - b. readily responds to this stimulus
 - c. No improvement required
 - d. ready respond to these stimuli
-

57. Select the most appropriate synonym of the given word. (+1, -0.25)

Fright

- a. Dread
 - b. Mockery
 - c. Composure
 - d. Bravery
-

58. Parts of the following sentence have been given as options. One of them contains an error. Select the part that contains the error from the given options. (+1, -0.25)

We are all aware that our environment are not what it used to be.

- a. We are all
 - b. aware that our
 - c. environment are not
 - d. What it used to be
-

59. Select the correctly spelt word. (+1, -0.25)

- a. Progresion
- b. Disccoverly
- c. Resonate
- d. Escapeade

60. The following sentence has been divided into parts. One of them may contain an error. Select the part that contains the error from the given options. If you don't find any error, mark 'No error' as your answer. (+1, -0.25)

Most of the carbon-trapping mechanisms / that we have identified are / based at limit studies.

- a. Most of the carbon-trapping mechanisms
- b. No error
- c. that we have identified are
- d. based at limit studies

61. Select the option that can be used as a one-word substitute for the given group of words. (+1, -0.25)

Incapable of making mistakes or being wrong

- a. Infallible
- b. Fatalist
- c. Fanatic

d. Cynic

62. Select the most appropriate meaning of the underlined idiom. (+1, -0.25)

Half a million dollars is only a drop in the bucket to what is required for this industry.

- a. An unreliable person
 - b. unity and functioning together to achieve a goal
 - c. A very small part of something big or whole
 - d. a person or situation having no hope of positive change
-

63. Select the most appropriate option to fill in the blank. (+1, -0.25)

This small hut is going to be my _____ for the next three days.

- a. loaf
 - b. scout
 - c. abode
 - d. legacy
-

64. Select the most appropriate option to fill in the blank. (+1, -0.25)

He believed that he had struck terror in his children's hearts because of his _____.

- a. love
- b. rage

- c. calmness
 - d. fortune
-

65. Select the most appropriate option to fill in the blank. (+1, -0.25)

Miss Samantha is at the _____ of her popularity.

- a. peek
 - b. peck
 - c. pick
 - d. peak
-

66. Select the most appropriate ANTONYM of the given word. (+1, -0.25)

Flexible

- a. Compliant
 - b. Defiant
 - c. Peculiar
 - d. Reckless
-

67. Select the option that will improve the underlined part of the given sentence. In case no improvement is needed, select 'No improvement required'. (+1, -0.25)

As the tree came crashing down, the monkeys woke up from its sleep and ran from branch to branch.

- a. wakes up from its sleep
 - b. woke up from their sleep
 - c. waken up in their sleep
 - d. No improvement required
-

68. Select the most appropriate option to fill in the blank. (+1, -0.25)

The age of the participants _____ an important factor in this competition.

- a. are
 - b. do
 - c. has
 - d. is
-

69. Select the option that will improve the underlined part of the sentence. In case no improvement is needed, select 'No improvement required'. (+1, -0.25)

No other informations was conveyed to him.

- a. No other's information
 - b. No improvement required
 - c. No other information
 - d. None another information
-

70. Select the option that can be used as a one-word substitute for the given group of words. (+1, -0.25)

Someone working or acting merely for money or other rewards

- a. Player
- b. Contractor
- c. Mercenary
- d. Debtor

71. In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank. (+1, -0.25)

Mahalia Jackson was (1) _____ into a preacher's family in 1911, and she grew up in a riverfront shanty in New Orleans. She was motherless at five, working as a maid and laundress in her mid-teens. As a little girl, she would (2) _____ to herself before she went to sleep, "Someday the sun is going to shine down on me in some faraway place." In pursuit of that dream, Mahalia migrated to Chicago when she was still a teenager. She never expected to support herself by singing, and by the time I joined her, the hands she used so expressively in her performances had (3) _____ floors, (4) _____ and helped her earn a living as a hotel maid, factory worker, beautician and florist. But her remarkable (5) _____ brought her more and more invitations to sing at funerals, in churches, at concerts. And, through her warm friendly personality and a life based on sound spiritual values and hard work, she eventually found her place in the sun.

Select the most appropriate option to fill in blank number 1.

- a. Scorn

- b. Adorn
 - c. Born
 - d. Worn
-

72. In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank. (+1, -0.25)

Mahalia Jackson was (1) _____ into a preacher's family in 1911, and she grew up in a riverfront shanty in New Orleans. She was motherless at five, working as a maid and laundress in her mid-teens. As a little girl, she would (2) _____ to herself before she went to sleep, "Someday the sun is going to shine down on me in some faraway place." In pursuit of that dream, Mahalia migrated to Chicago when she was still a teenager. She never expected to support herself by singing, and by the time I joined her, the hands she used so expressively in her performances had (3) _____ floors, (4) _____ and helped her earn a living as a hotel maid, factory worker, beautician and florist. But her remarkable (5) _____ brought her more and more invitations to sing at funerals, in churches, at concerts. And, through her warm friendly personality and a life based on sound spiritual values and hard work, she eventually found her place in the sun.

Select the most appropriate option to fill in blank number 2.

- a. Prosper
 - b. Glimmer
 - c. Crisper
 - d. Whisper
-

73. In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank. (+1, -0.25)

Mahalia Jackson was (1) _____ into a preacher's family in 1911, and she grew up in a riverfront shanty in New Orleans. She was motherless at five, working as a maid and laundress in her mid-teens. As a little girl, she would (2) _____ to herself before she went to sleep, "Someday the sun is going to shine down on me in some faraway place." In pursuit of that dream, Mahalia migrated to Chicago when she was still a teenager. She never expected to support herself by singing, and by the time I joined her, the hands she used so expressively in her performances had (3) _____ floors, (4) _____ and helped her earn a living as a hotel maid, factory worker, beautician and florist. But her remarkable (5) _____ brought her more and more invitations to sing at funerals, in churches, at concerts. And, through her warm friendly personality and a life based on sound spiritual values and hard work, she eventually found her place in the sun.

Select the most appropriate option to fill in blank number 3.

- a. Stubbed
- b. Grubbed
- c. Scrubbed
- d. Clubbed

74. In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank. (+1, -0.25)

Mahalia Jackson was (1) _____ into a preacher's family in 1911, and she grew up in a riverfront shanty in New Orleans. She was motherless at five, working as a maid and laundress in her mid-teens. As a little girl, she

would (2) _____ to herself before she went to sleep, "Someday the sun is going to shine down on me in some faraway place." In pursuit of that dream, Mahalia migrated to Chicago when she was still a teenager. She never expected to support herself by singing, and by the time I joined her, the hands she used so expressively in her performances had (3) _____ floors, (4) _____ and helped her earn a living as a hotel maid, factory worker, beautician and florist. But her remarkable (5) _____ brought her more and more invitations to sing at funerals, in churches, at concerts. And, through her warm friendly personality and a life based on sound spiritual values and hard work, she eventually found her place in the sun.

Select the most appropriate option to fill in blank number 4.

- a. Laundered
- b. Unsoldered
- c. Considered
- d. Pondered

75. In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank. (+1, -0.25)

Mahalia Jackson was (1) _____ into a preacher's family in 1911, and she grew up in a riverfront shanty in New Orleans. She was motherless at five, working as a maid and laundress in her mid-teens. As a little girl, she would (2) _____ to herself before she went to sleep, "Someday the sun is going to shine down on me in some faraway place." In pursuit of that dream, Mahalia migrated to Chicago when she was still a teenager. She never expected to support herself by singing, and by the time I joined her, the hands she used so expressively in her performances had (3) _____ floors, (4) _____ and helped her earn a living as a hotel maid, factory worker, beautician and florist. But her remarkable (5) _____ brought

her more and more invitations to sing at funerals, in churches, at concerts. And, through her warm friendly personality and a life based on sound spiritual values and hard work, she eventually found her place in the sun.

Select the most appropriate option to fill in blank number 5.

- a. keeping-skills
- b. Voice
- c. Cleaning
- d. Beauty

Prepp

Your Personal Exams Guide

General Awareness

76. Which of the following is an example of autotrophs? (+1, -0.25)

- a. Animals
- b. Green plants
- c. Protozoa
- d. Viruses

77. Which of the following terms is NOT associated with cricket? (+1, -0.25)

- a. Maiden
- b. LBW
- c. Slam dunk
- d. Yorker

78. Which of the following festivals marks the start of the Telugu New year? (+1, -0.25)

- a. Onam
- b. Gudi Padwa
- c. Pongal
- d. Ugadi

79. In which year did the Bhopal Gas Tragedy take place? (+1, -0.25)

- a. 1986
 - b. 1982
 - c. 1984
 - d. 1980
-

80. Most Harappan seals made of _____. (+1, -0.25)

- a. Bricks
 - b. Granite
 - c. Steatite
 - d. Brass
-

81. Who was the first Indian composer to win the Grammy Award? (+1, -0.25)

- a. Zubin Mehta
 - b. Zakir Hussain
 - c. AR Rahman
 - d. Pandit Ravi Shankar
-

82. If a fundamental right of a citizen of India is violated, _____. (+1, -0.25)

- a. he has to appeal in the Supreme court only
- b. he has to appeal in the district court first

- c. he has the choice of either approaching the Supreme court directly or the High court
 - d. he has to appeal in the High court first
-

83. For which of the following albums did Sonu Nigam win a Grammy Award? (+1, -0.25)

- a. Mahsoos
 - b. Mehmaan
 - c. Muskurahat
 - d. Mubarakan
-

84. Which of the following countries belong to the polar regions? (+1, -0.25)

- a. Canada
 - b. Colombia
 - c. Chile
 - d. China
-

85. Kathak is a classical dance form of which Indian state? (+1, -0.25)

- a. Tamil Nadu
- b. Uttar Pradesh
- c. Manipur
- d. Assam

86. Mirabai Chanu won the first silver medal for India in weightlifting at the _____ Olympics 2020. (+1, -0.25)

- a. Beijing
- b. Rio de Janeiro
- c. London
- d. Tokyo

87. Which of the following measures of money supply is least liquid of all? (+1, -0.25)

- a. M4
- b. M1
- c. M2
- d. M3

Your Personal Exams Guide

88. Damon Galgut was awarded the Booker Prize 2021 for Fiction for his book _____ (+1, -0.25)

- a. The Promise
- b. Great Circle
- c. A Passage North
- d. The Fortune Men

89. The workforce population includes people between _____ years. (+1, -0.25)

- a. 20 to 54
 - b. 15 to 59
 - c. 18 to 45
 - d. 17 to 55
-

90. Which of the following is a noble chemical element of the modern periodic table? (+1, -0.25)

- a. Fluorine
 - b. Silicon
 - c. Nitrogen
 - d. Neon
-

91. Who among the following is popularly known as the 'Disco King' passed away in February 2022? (+1, -0.25)

- a. Chandrashekhar G
 - b. Vanraj Bhatia
 - c. Anupam Shyam
 - d. Bappi Lahiri
-

92. Who among the following published the book 'Stripurushtulna'? (+1, -0.25)

- a. Anita Desai

- b. Tarabai Shinde
 - c. Shashi Deshpande
 - d. Pandita Ramabai
-

93. Kanishka was a ruler of _____ dynasty. (+1, -0.25)

- a. Mughal
 - b. Maurya
 - c. Kushana
 - d. Gupta
-

94. Who ruled over Delhi after Razia Sultan? (+1, -0.25)

- a. Shamsuddin Iltutmish
 - b. Ghiyasuddin Balban
 - c. Prithviraj Chauhan
 - d. Qutbuddin Aibak
-

95. Which of the following campaigns was launched for greywater management in March 2022? (+1, -0.25)

- a. Sujlam
- b. Sujlam 2.0
- c. Jalrakshak

d. Jalrakshak 2.0

96. As of April 2022, what is the official language of India's neighbouring country China? (+1, -0.25)

- a. Bengali
 - b. Burmese
 - c. Sinhala
 - d. Mandarin
-

97. In which year through the Indian Official Secrets Act was freedom of press curbed? (+1, -0.25)

- a. 1919
 - b. 1921
 - c. 1904
 - d. 1909
-

98. This layer of soil is dark in colour as it is rich in humus and minerals. It is generally soft, porous and can retain more water. It is called: (+1, -0.25)

- a. B-horizon
- b. bedrock
- c. C-horizon
- d. topsoil

99. Which of the following is NOT a function of the State Public Service Commission? (+1, -0.25)

- a. It conducts examinations for appointments to the services of the state.
- b. It is consulted in all disciplinary matters affecting a person serving under the government of the state in a civil capacity.
- c. It is consulted on any claim for the award of a pension in respect of injuries sustained by a person while serving under the government of the state.
- d. It is consulted while making reservations of appointments or posts in favour of any backward class of citizens.

100. Which of the following minerals are NOT found in Chota nagpur-belt? (+1, -0.25)

- a. Gold
- b. Iron-ore
- c. Chromite
- d. Coal

Answers

1. Answer: c

Explanation:

Alphabets	A	B	C	D	E	F	G	H	I	J	K	L	M
Positional value	1	2	3	4	5	6	7	8	9	10	11	12	13
Positional value	26	25	24	23	22	21	20	19	18	17	16	15	14
Alphabets	Z	Y	X	W	V	U	T	S	R	Q	P	O	N

The logic followed here is:

Here,

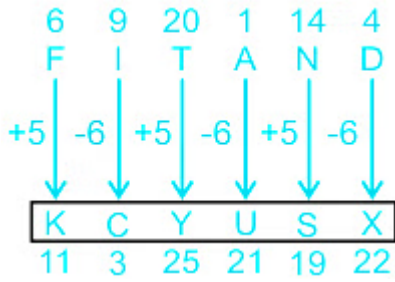
'STOPER' is written as 'XNTJLL'

19	20	15	16	5	18
S	T	O	P	E	R
+5	-6	+5	-6	+5	-6
↓	↓	↓	↓	↓	↓
X	N	T	J	J	L
24	14	20	10	10	12

And, 'GANOPY' is written as 'LUSIUS'

7	1	14	15	16	25
G	A	N	O	P	Y
+5	-6	+5	-6	+5	-6
↓	↓	↓	↓	↓	↓
L	U	S	I	U	S
12	21	19	9	21	19

Similarly, for FITAND : ?



So, 'FITAND' will be written as 'KCYUSX'.

Hence, the correct answer is "Option 3".

2. Answer: d

Explanation:

The logic followed here is:



So, '22.5' will complete the series.

Hence, the correct answer is "22.5".

3. Answer: b

Explanation:

Alphabets	A	B	C	D	E	F	G	H	I	J	K	L	M
Positional value	1	2	3	4	5	6	7	8	9	10	11	12	13
Positional value	26	25	24	23	22	21	20	19	18	17	16	15	14
Alphabets	Z	Y	X	W	V	U	T	S	R	Q	P	O	N

The logic followed here is:

For, H64 : J100

$$\begin{array}{cc}
 \text{H} & 64 \\
 (8) & (8)^2 \\
 +2 \downarrow & +2 \downarrow \\
 \text{J} & 100 \\
 (10) & (10)^2
 \end{array}$$

For, L144 : N196

$$\begin{array}{cc}
 \text{L} & 144 \\
 (12) & (12)^2 \\
 +2 \downarrow & +2 \downarrow \\
 \text{N} & 196 \\
 (14) & (14)^2
 \end{array}$$

Similarly, for U441:

$$\begin{array}{cc}
 \text{U} & 441 \\
 (21) & (21)^2 \\
 +2 \downarrow & +2 \downarrow \\
 \boxed{\text{W}} & \boxed{529} \\
 (23) & (23)^2
 \end{array}$$

Hence, the correct answer is "Option 2".

4. Answer: a

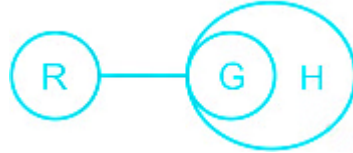
Explanation:

Statement:

I. No R is a G.

II. All G's are H.

The least possible diagram for the given statements is as follows:



Conclusions:

(i) No H is a R – False (Some H is definitely not R, but all No is a R can be possible not definite).

(ii) No G is a R – True (Because No R is a G, so No G is a R).

Here, Only conclusion II follows.

Hence, the correct answer is "Option 1".

5. Answer: a

Explanation:

The logic followed here is:



So, '967' will complete the series.

Hence, the correct answer is "967".

6. Answer: a

Explanation:

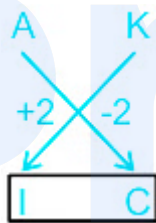
Alphabets	A	B	C	D	E	F	G	H	I	J	K	L	M
Positional value	1	2	3	4	5	6	7	8	9	10	11	12	13
Positional value	26	25	24	23	22	21	20	19	18	17	16	15	14
Alphabets	Z	Y	X	W	V	U	T	S	R	Q	P	O	N

The logic followed here is:

For, RS : QT



Similarly, for AK:



Hence, the correct answer is "Option 1".

Your Personal Exams Guide

7. Answer: b

Explanation:

The logic followed here is:

Alphabets	A	B	C	D	E	F	G	H	I	J	K	L	M
Positional value	1	2	3	4	5	6	7	8	9	10	11	12	13
Positional value	26	25	24	23	22	21	20	19	18	17	16	15	14
Alphabets	Z	Y	X	W	V	U	T	S	R	Q	P	O	N

Logic: **Sum of the place value + 1.**

Now,

'PINT' is coded as '60',

$$\Rightarrow P(16) + I(9) + N(14) + T(20) + 1$$

$$\Rightarrow 16 + 9 + 14 + 20 + 1 = 60.$$

'HOME' is coded as '42',

$$\Rightarrow H(8) + O(15) + M(13) + E(5) + 1$$

$$\Rightarrow 8 + 15 + 13 + 5 + 1 = 42.$$

Similarly, for 'TONE'

$$\Rightarrow T(20) + O(15) + N(14) + E(5) + 1$$

$$\Rightarrow 20 + 15 + 14 + 5 + 1 = 55.$$

So, 'TONE' will be coded as '55'.

Hence, the correct answer is **"55"**.

Your Personal Exams Guide

8. Answer: b

Explanation:

Given equation: $11 \div 77 + 253 \times 23 - 800 = 58.$

BODMAS Table:

B	Brackets in order {}, {}, []	ब्रैकेट {}, {}, [] क्रम में
O	of	का
D	Division (÷)	विभाजन (÷)
M	Multiplication (×)	गुणा (×)
A	Addition (+)	जोड़ (+)
S	Subtraction (-)	घटाव (-)

Let's check each option one by one.

Option 1) – and ÷

$$\text{Given: } 11 \div 77 + 253 \times 23 - 800 = 58$$

After interchanging the numbers we get;

$$\Rightarrow 11 - 77 + 253 \times \underline{23 \div 800} = 58$$

$$\Rightarrow 11 - 77 + \underline{253 \times 0.03} = 58$$

$$\Rightarrow \underline{11} - 77 + \underline{7.59} = 58$$

$$\Rightarrow \underline{18.59} - 77 = 58$$

$$\Rightarrow -58.41 \neq 58$$

$$\Rightarrow \text{LHS} \neq \text{RHS}$$

Option 2) × and ÷

$$\text{Given: } 11 \div 77 + 253 \times 23 - 800 = 58$$

After interchanging the numbers we get;

$$\Rightarrow 11 \times 77 + \underline{253 \div 23} - 800 = 58$$

$$\Rightarrow \underline{11} \times \underline{77} + 11 - 800 = 58$$

$$\Rightarrow \underline{847} + \underline{11} - 800 = 58$$

$$\Rightarrow \underline{858} - 800 = 58$$

$$\Rightarrow 58 = 58$$

$$\Rightarrow \text{LHS} = \text{RHS.}$$

Option 3) + and -

$$\text{Given: } 11 \div 77 + 253 \times 23 - 800 = 58$$

After interchanging the numbers we get;

$$\Rightarrow \underline{11 \div 77} - 253 \times 23 + 800 = 58$$

$$\Rightarrow 0.14 - \underline{253 \times 23} + 800 = 58$$

$$\Rightarrow \underline{0.14} - 5819 + \underline{800} = 58$$

$$\Rightarrow \underline{800.14} - \underline{5819} = 58$$

$$\Rightarrow -5018.86 \neq 58$$

$$\Rightarrow \text{LHS} \neq \text{RHS}$$

Option 4) - and ×

$$\text{Given: } 11 \div 77 + 253 \times 23 - 800 = 58$$

After interchanging the numbers we get;

$$\Rightarrow \underline{11 \div 77} + 253 - 23 \times 800 = 58$$

$$\Rightarrow 0.14 + 253 - \underline{23 \times 800} = 58$$

$$\Rightarrow \underline{0.14 + 253} - 18400 = 58$$

$$\Rightarrow \underline{253.14} - \underline{18400} = 58$$

$$\Rightarrow -18146.86 \neq 58$$

$$\Rightarrow \text{LHS} \neq \text{RHS}$$

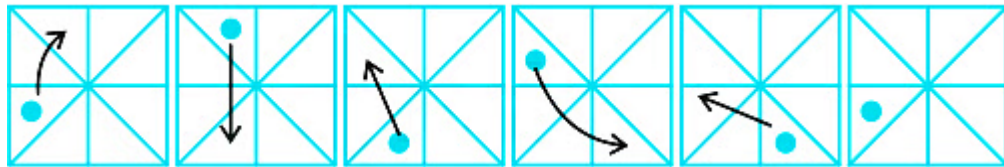
Hence, the correct answer is "Option 2".

9. Answer: b

Explanation:

The logic followed here is:

Logic: Dark Dots is rotates 2 places in clockwise direction and three places in anticlockwise direction in alternate boxes.



Hence, the correct answer is "Option 2".

10. Answer: c

Explanation:

The logic followed here is:

Logic: $(2\text{nd number} \times 2) - 1\text{st number} = 3\text{rd number}$.

$(32, 70, 108)$

$\rightarrow (70 \times 2) - 32$

$\Rightarrow 140 - 32 = 108$.

Now, checking the options:

Option 1: $(44, 82, 124)$

$\rightarrow (82 \times 2) - 44$

$\Rightarrow 164 - 44 = 120 \neq 124$.

Option 2: (34, 72, 122)

$$\rightarrow (72 \times 2) - 34$$

$$\Rightarrow 144 - 34 = 110 \neq 122.$$

Option 3: (42, 80, 118)

$$\rightarrow (80 \times 2) - 42$$

$$\Rightarrow 160 - 42 = 118 = 118.$$

Option 4: (38, 76, 116)

$$\rightarrow (76 \times 2) - 38$$

$$\Rightarrow 152 - 38 = 114 \neq 116.$$

Hence, the correct answer is "Option 3".

11. Answer: a

Explanation:

Given equation: $96 - 12 \div 6 + 3 \times 5 = 17$.

BODMAS Table:

B	Brackets in order (), {}, []	ब्रैकेट (), {}, [] क्रम में
O	of	का
D	Division (÷)	विभाजन (÷)
M	Multiplication (×)	गुणा (×)
A	Addition (+)	जोड़ (+)
S	Subtraction (-)	घटाव (-)

Let's check each option one by one.

Option 1) ÷ and -

Given: $96 - 12 \div 6 + 3 \times 5 = 17$

After interchanging the numbers we get;

$$\Rightarrow \underline{96} \div \underline{12} - 6 + 3 \times 5 = 17$$

$$\Rightarrow 8 - 6 + \underline{3 \times 5} = 17$$

$$\Rightarrow \underline{8} - 6 + \underline{15} = 17$$

$$\Rightarrow \underline{23} - 6 = 17$$

$$\Rightarrow 17 = 17$$

$$\Rightarrow \text{LHS} = \text{RHS}$$

Option 2) \div and \times

Given: $96 - 12 \div 6 + 3 \times 5 = 17$

After interchanging the numbers we get;

$$\Rightarrow 96 - 12 \times 6 + \underline{3 \div 5} = 17$$

$$\Rightarrow 96 - \underline{12 \times 6} + 0.6 = 17$$

$$\Rightarrow \underline{96} - 72 + \underline{0.6} = 17$$

$$\Rightarrow \underline{96.6} - 72 = 17$$

$$\Rightarrow 24.6 \neq 17$$

$$\Rightarrow \text{LHS} \neq \text{RHS}$$

Option 3) $+$ and $-$

Given: $96 - 12 \div 6 + 3 \times 5 = 17$

After interchanging the numbers we get;

$$\Rightarrow 96 + \underline{12 \div 6} - 3 \times 5 = 17$$

$$\Rightarrow 96 + 2 - \underline{3 \times 5} = 17$$

⇒ 96 + 2 - 15 = 17

⇒ 98 - 15 = 17

⇒ 83 ≠ 17

⇒ LHS ≠ RHS

Option 4) + and ×

Given: 96 - 12 ÷ 6 + 3 × 5 = 17

After interchanging the numbers we get;

⇒ 96 - 12 ÷ 6 × 3 + 5 = 17

⇒ 96 - 2 × 3 + 5 = 17

⇒ 96 - 6 + 5 = 17

⇒ 101 - 6 = 17

⇒ 95 ≠ 17

⇒ LHS ≠ RHS

Hence, the correct answer is "Option 1".

12. Answer: d

Explanation:

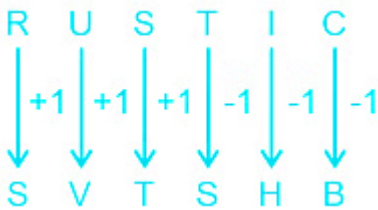
Alphabets	A	B	C	D	E	F	G	H	I	J	K	L	M
Positional value	1	2	3	4	5	6	7	8	9	10	11	12	13
Positional value	26	25	24	23	22	21	20	19	18	17	16	15	14
Alphabets	Z	Y	X	W	V	U	T	S	R	Q	P	O	N

The logic followed here is:

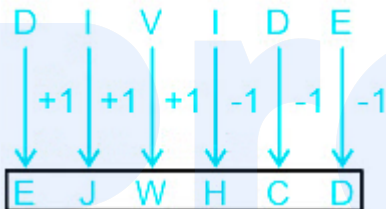
'GERMAN' is written as 'HFSLZM'



'RUSTIC' is written as 'SVTSHB'



Similarly, for 'DIVIDE'



So, 'DIVIDE' will be written as 'EJWHCD'.

Hence, the correct answer is "Option 4".

Your Personal Exams Guide

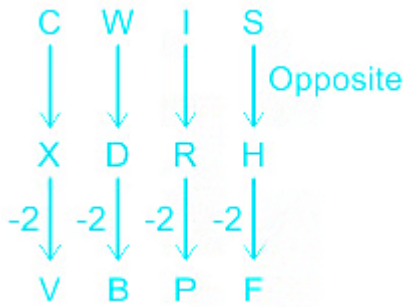
13. Answer: c

Explanation:

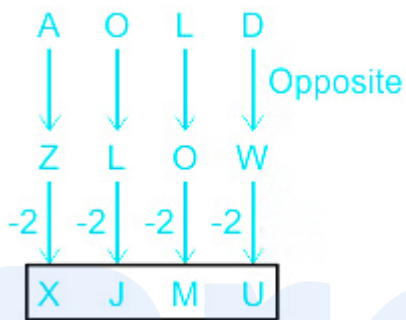
Alphabets	A	B	C	D	E	F	G	H	I	J	K	L	M
Positional value	1	2	3	4	5	6	7	8	9	10	11	12	13
Positional value	26	25	24	23	22	21	20	19	18	17	16	15	14
Alphabets	Z	Y	X	W	V	U	T	S	R	Q	P	O	N

The logic followed here is:

For, CWIS : VBPF



Similarly, for AOLD:

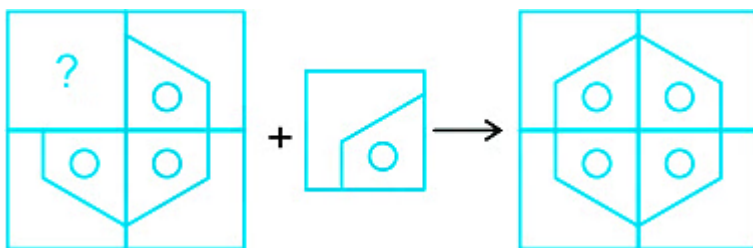


Hence, the correct answer is "Option 3".

14. Answer: a

Explanation:

The image that completes the pattern is:



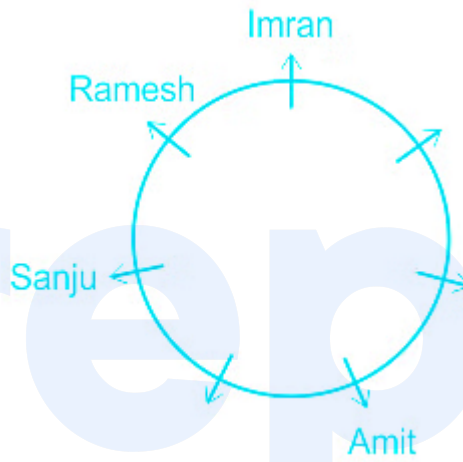
Hence, the correct answer is "Option 1".

15. Answer: b

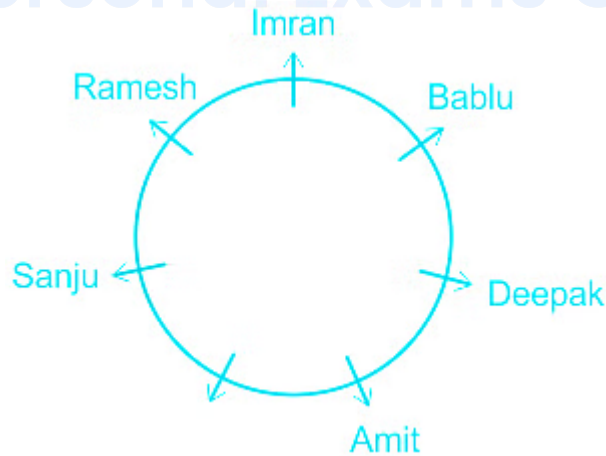
Explanation:

Given: Amit, Bablu, Ramesh, Deepak, Imran, Sunil, and Sanju are sitting around a circular table facing opposite to the centre.

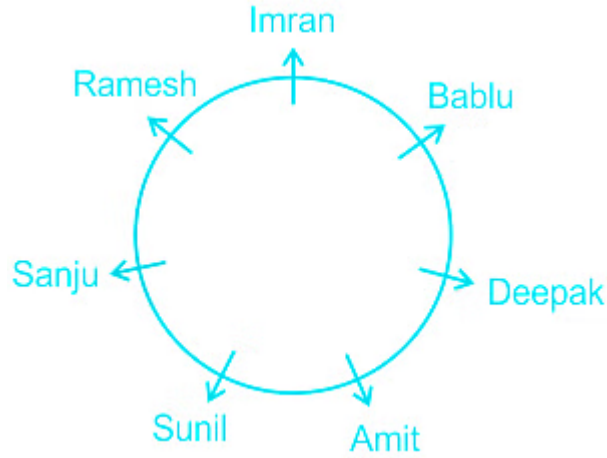
- 1) Sanju sits second to the left of Imran.
- 2) Amit does not sit adjacent to Imran and Sanju.
- 3) Ramesh sits fourth to the left of Amit.



- 4) Bablu does not sit adjacent to Amit.
- 5) Deepak and Bablu sit adjacent to each other.



And, Sunil will sit on the remaining place.



Here, Sunil sits immediate right of Amit.

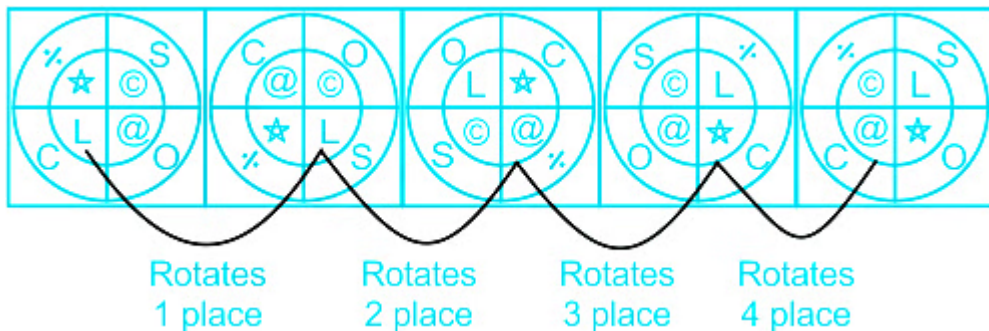
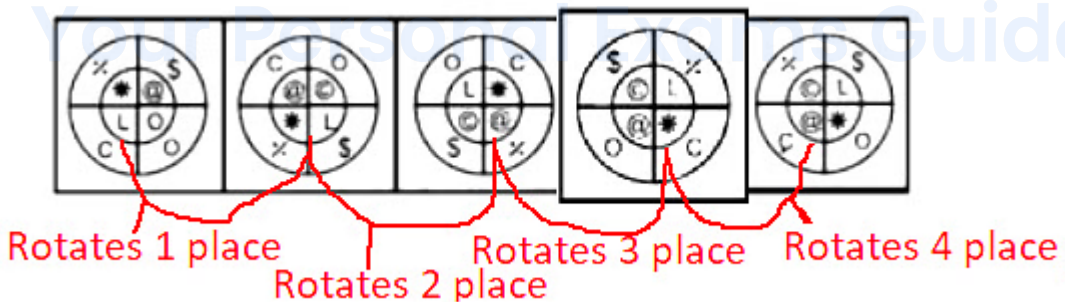
Hence, the correct answer is "Sunil".

16. Answer: b

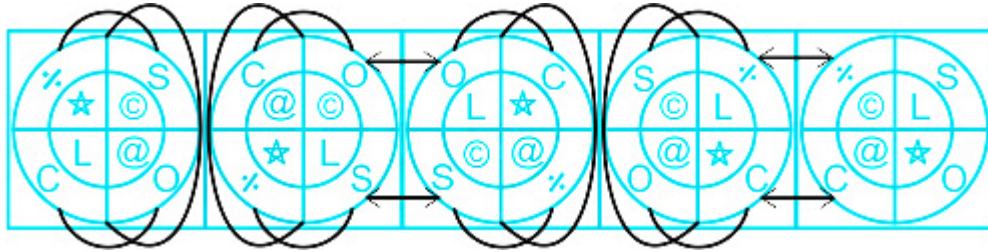
Explanation:

The logic followed here is:

Step I: Inner circle rotates 1 place, 2 place, 3 place, and 4 place respectively.



Step II: Outer circle interchange its places to next box.



Hence, the correct answer is "Option 2".

17. Answer: a

Explanation:

The logic followed here is:

Logic: (1st number)² + (2nd number)² = 3rd number.

Now,

For, (7, 9, 130)

$$\rightarrow (7)^2 + (9)^2$$

$$\Rightarrow 49 + 81 = 130.$$

For, (16, 8, 320)

$$\rightarrow (16)^2 + (8)^2$$

$$\Rightarrow 256 + 64 = 320.$$

Similarly, for (11, 9, ?)

$$\rightarrow (11)^2 + (9)^2$$

$$\Rightarrow 121 + 81 = 202.$$

Hence, the correct answer is "202".

18. Answer: d

Explanation:

The logic followed here is:

Logic: **Sum of the place value - 1.**

Now,

'POM' is coded as '43',

$$\rightarrow P(16) + O(15) + M(13) - 1$$

$$\Rightarrow 16 + 15 + 13 - 1$$

$$\Rightarrow 44 - 1 = 43.$$

'HAN' is coded as '22',

$$\rightarrow H(8) + A(1) + N(14) - 1$$

$$\Rightarrow 8 + 1 + 14 - 1$$

$$\Rightarrow 23 - 1 = 22.$$

Similarly, for 'BRO'

$$\rightarrow B(2) + R(18) + O(15) - 1$$

$$\Rightarrow 2 + 18 + 15 - 1$$

$$\Rightarrow 35 - 1 = 34.$$

So, 'BRO' will be coded as '34'.

Hence, the correct answer is **"34"**.

19. Answer: d

Explanation:

The paper when unfolded will appear as shown below:



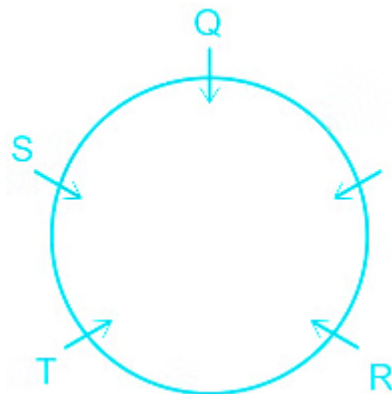
Hence, ' option 4 ' is the correct answer.

20. Answer: c

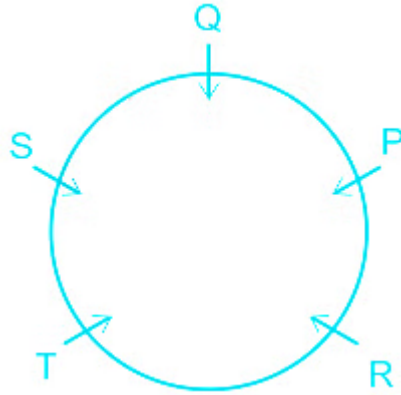
Explanation:

Given: Five friends P, Q, R, S and T.

- 1) Q is second to the left of T.
- 2) S is the immediate neighbour of Q and T.
- 3) R is not the immediate neighbour of Q.



And, P will sit on the remaining place.



While counting from the left of Q, there are **three** friends are sitting between Q and S.

Hence, the correct answer is "Option 3".

21. Answer: d

Explanation:

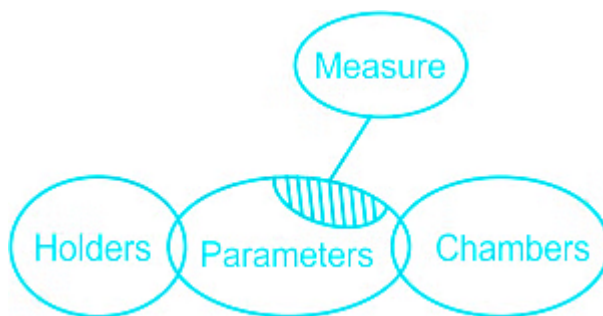
Statement:

Some holders are parameters.

Some chambers are parameters.

Some parameters are not measures.

The least possible diagram for the given statements is as follows:



Conclusions:

(i) Some measures are chambers - False (Because No definite relation given between measures and chambers, so it can be possible only).

(ii) Some holders are chambers - False (Because No definite relation given between holders and chambers, so it can be possible only).

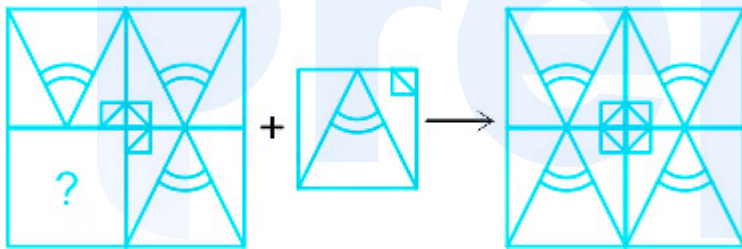
Here, Neither conclusion I nor II follows.

Hence, the correct answer is "Option 4".

22. Answer: a

Explanation:

The image that complete the pattern is:

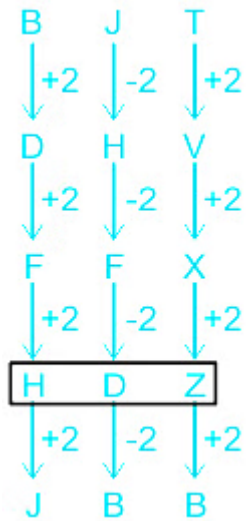


Hence, the correct answer is "Option 1".

23. Answer: c

Explanation:

The logic followed here is:



So, 'HDZ' will complete the series.









Hence, the correct answer is "Option 3".

24. Answer: b

Explanation:

The image embedded in given figure is as shown below:

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No.	Option	Question	Answer
1.			Not Embedded
2.			Embedded
3.			Not Embedded
4.			Not Embedded

Hence, "Option 2" is the correct answer.

25. Answer: d

Explanation:

Given: Five persons A, B, C, D and E.

1) C is the youngest.

___ > ___ > ___ > ___ > C

2) A is younger than only D and E.

$$D/E > E/D > A > _ _ > C$$

3) E is younger than D and older than B.

$$D > E > A > B > C$$

So, B is the fourth oldest.

Hence, the correct answer is "B".

26. Answer: c

Explanation:

Given:-

(1) Total number of students = 5000

(2) Number of students in the Electronics and Communication stream = 20%

(3) The college decided to give ₹300 per student to each stream for the purchase of teaching materials

Calculation:-

Number of students in the Electronics and Communication stream = 20%

$$\Rightarrow (5000 \times 20) / 100 = 1000$$

The college decided to give ₹300 per student to each stream for the purchase of teaching materials.

Total money got by Electronics and Communication stream

$$\Rightarrow 1000 \times 300 = 300000$$

∴ The required answer is 300000.

27. Answer: c

Explanation:

Given:-

- (1) The marked price of an item is 25% more than its selling price.
- (2) The selling price of the same item is 20% more than its cost price.

The formula used:-

(1) Percentage more = $[(MP - CP)/CP] \times 100$
(Marked price with respect to the cost price)

Where, MP = Marked price

CP = Cost price

Calculation:-

Let's assume the cost price of an item is 100y.

The selling price of the same item is 20% more than its cost price.

Selling price of the same item = 100y of (100 + 20)%

$\Rightarrow 100y \times 120\%$

$\Rightarrow 120y$ (SP)

The marked price of an item is 25% more than its selling price.

Marked price of the same item = 120y of (100 + 25)%

$\Rightarrow (120y \times 125) / 100$

$\Rightarrow 150y$ (MP)

\Rightarrow Percentage more = $[(MP - CP)/CP] \times 100$

\Rightarrow Percentage more = $[(150y - 100y)/100y] \times 100$

\Rightarrow Percentage more = 50 %

\therefore The required answer is 50%.

28. Answer: d

Explanation:

Given:-

Diameter of hemisphere = 7 cm

Formula used:-

(1) Radius(R) = Diameter(D)/2

(2) Total surface area of a closed hemisphere = $3\pi R^2$

Calculation:-

Total surface area of a closed hemisphere = $3 \times (22/7) \times (7/2)^2$

$$\Rightarrow 3 \times (22/7) \times (49/4)$$

$$\Rightarrow 3 \times 11 \times (7/2) = 115.5 \text{ cm}^2$$

\therefore The required answer is 115.5 cm²

29. Answer: a

Explanation:

Detailed solution:-

The average of 12 numbers is 15.

Sum of 12 numbers = $15 \times 12 = 180$

The average of the first four numbers is 13.

Sum of first four numbers = $13 \times 4 = 52$

Average of the remaining numbers = $(180 - 52)/(12 - 4)$

$$\Rightarrow 128/8 = 16$$

\therefore The required answer is 16.

30. Answer: b

Explanation:

Given:-

(1) Cost price(CP) = 22500

(2) His overhead expenses are ₹1,500

(3) Selling price(SP) = 30000

Formula used:-

$$\text{Profit \%} = [(SP - CP)/CP] \times 100$$

Calculation:-

Cost price after adding expenses (final cost price)

$$\Rightarrow 22500 + 1500 = 24000$$

$$\Rightarrow \text{Profit \%} = [(SP - CP)/CP] \times 100$$

$$\Rightarrow \text{Profit \%} = [(30000 - 24000)/24000] \times 100$$

$$\Rightarrow \text{Profit \%} = [6000/24000] \times 100$$

$$\Rightarrow \text{Profit \%} = [1/4] \times 100 = 25 \%$$

\therefore The required answer is 25 %.

31. Answer: b

Explanation:

Detailed solution:-

The ratio of the number of students who scored 40 and above in Hindi to the number of students

who scored 20 and above in English = $80 : 180 = 4 : 9$

\therefore The required answer is 4 : 9.

32. Answer: d

Explanation:

Given:-

(1) Kavita can complete a piece of work alone in 12 hours

(2) Komal can complete the same work alone in 18 hours

Formula used:-

Total work = time \times efficiency

Calculation:-

	Time	EFFICIENCY	Total work
kavita	12	3	36
komal	18	2	

\Rightarrow Kavita works alone for the first 4 hours and leaves.

After that, Komal comes and completes

the remaining work by herself.

Let's assume the time taken by Komal to complete the remaining work by herself is 't' hours

Time of Kavita × Efficiency of Kavita
+ time of Komal × Efficiency of Komal = 36

$$\Rightarrow 4 \times 3 + t \times 2 = 36$$

$$\Rightarrow 2t + 12 = 36$$

$$\Rightarrow 2t = 24$$

$$\Rightarrow t = 12$$

∴ The required answer is 12.

33. Answer: c

Explanation:

Detailed solution:-

Two wires of lengths 10 m 54 cm and 11 m 56 cm are both cut into pieces of length x cm each, where x is an integer.

Length of first wire = 10 m 54 cm = 1054 cm

Length of second wire = 11 m 56 cm = 1156 cm

$$\Rightarrow 1054 \text{ cm factor} = 2 \times 17 \times 31$$

$$\Rightarrow 1156 \text{ cm factor} = 2 \times 2 \times 17 \times 17$$

The highest common factors (H.C.F) of 1054 and 1156 are 17 and 2.

The maximum length of each piece is 'x'. (Given)

So the maximum value of x = 2 × 17 = 34

∴ The required answer is 34.

34. Answer: d

Explanation:

Given:-

(1) Monthly income = ₹1,50,000

(2) Savings = ₹ 1,500

Formula used:-

Percentage = (Savings /Total Monthly income) × 100

Calculation:-

⇒ Percentage of his savings = (1500/150000) × 100

⇒ Percentage of his savings = 1%

∴ The required answer is 1%.

35. Answer: c

Explanation:

Detailed solution:-

let's assume total marks = M

If he scored 345 and failed by 15 marks.

Passing marks for him = 345+15 = 360

For a candidate to pass an examination,

he must score 60% marks

So,

⇒ $(M \times 60)/100 = 360$

⇒ $M = 36000/60 = 600$

∴ The required answer is 600.

36. Answer: a

Explanation:

Given:-

(1) Long = 60 feet

(2) Broad = 30 feet

(3) High = 20 feet

Formula used:-

$$\text{Length of the longest pole} = \sqrt{L^2 + W^2 + H^2}$$

Where L = Length, W = Width, H = Height

Calculation:-

$$\text{Length of the longest pole} = \sqrt{L^2 + W^2 + H^2}$$

$$\Rightarrow \sqrt{60^2 + 30^2 + 20^2}$$

$$\Rightarrow \sqrt{3600 + 900 + 400}$$

$$\Rightarrow \sqrt{4900} = 70 \text{ feet}$$

∴ The required answer is 70.

37. Answer: c

Explanation:

Given:-

All the odd numbers between 8 and 32

Formula used:-

$$\text{Average} = (\text{Frist number} + \text{Last number})/2$$

Calculation:-

All the odd numbers between 8 and 32 (9 to 31)

Where,

$$\text{Frist number} = 9 \quad \text{Last number} = 31$$

$$\text{Average} = (\text{Frist number} + \text{Last number})/2$$

$$\Rightarrow \text{Average} = (9 + 31)/2 = 40/2$$

$$\Rightarrow \text{Average} = 20$$

∴ The required answer is 20.

38. Answer: a

Explanation:

Detailed solution:-

$$\Rightarrow P = \frac{5}{6} Q \text{ and } Q = \frac{4}{5} R,$$

$$\Rightarrow P/Q = 5/6$$

So let's assume $P = 5M$ and $Q = 6M$... (1)

$$\Rightarrow Q = \frac{4}{5} R$$

$$\Rightarrow Q/R = 4/5$$

So let's assume $Q = 4Z$ and $R = 5Z$(2)

We get $6M = 4Z$

$$\Rightarrow Z = 1.5M$$

[From (1) & (2)]

Value of $2P : 3Q : 4R = 2 \times 5M : 3 \times 6M : 4 \times 5Z$

$$\Rightarrow 10M : 18M : 20Z$$

Put the value of z above the ratio

$$\Rightarrow 10M : 18M : 20 \times 1.5M$$

$$\Rightarrow 10M : 18M : 30M$$

$$\Rightarrow 5 : 9 : 15$$

\therefore The required answer is 5: 9: 15

39. Answer: d

Explanation:

Given:-

(1) A boat can travel 21 km in 3 hours going upstream.

(2) It can travel 55 km in 5 hours going downstream.

Formula used:-

(1) Upstream = $(u - v)$ km/hr

(2) Downstream = $(u + v)$ Km/hr

where "u" is the speed of the boat in still water

and "v" is the speed of the stream

Calculation:-

Let's assume the speed of the boat in still water and the speed of the stream is 'u' and 'v' respectively.

A boat can travel 21 km in 3 hours going upstream.

$$\Rightarrow u - v = 21/3$$

$$\Rightarrow u - v = 7 \text{ km/hr(1)}$$

It can travel 55 km in 5 hours going downstream.

$$\Rightarrow u + v = 55/5$$

$$\Rightarrow u + v = 11 \text{ km/hr(2)}$$

Subtracting Equation (2) to equation(1)

$$\Rightarrow u + v - (u - v) = 11 - 7$$

$$\Rightarrow 2v = 4$$

Speed of the stream (v) = 2

∴ The required answer is 2.

40. Answer: d

Explanation:

Detailed solution:-

Two numbers are in the ratio 3 : 5.

Let's assume the two numbers are 3M and 5M respectively.

If 4 is subtracted from each of these two numbers, the new numbers then are in the ratio 4 : 7

$$\Rightarrow \frac{3M-4}{5M-4} = \frac{4}{7}$$

$$\Rightarrow 21M - 28 = 20M - 16$$

$$\Rightarrow 21M - 20M = 28 - 16$$

$$\Rightarrow M = 12$$

Smaller of the two original numbers = 3M

$$\Rightarrow 3 \times 12 = 36$$

∴ The required answer is 36.

41. Answer: d

Explanation:

Given:-

- (1) A, B, and C together can complete a work in 10 days.
- (2) A and B together can do the same work in 12 days
- (3) A, B, and C received ₹ 9,000 for doing the work together,

Formula used:-

- (1) Work Done = Time Taken × Rate of Work
- (2) Amount will be shared among them as per their efficiencies

Calculation:-

	Time	Efficiency	Total work
A+B+C	10	6	60
A+B	12	5	

The efficiency of C = (A + B + C) Efficiency - (A +B) Efficiency

⇒ The efficiency of C = 6 - 5 = 1 unit/day

A, B, and C received ₹9,000 for doing the work together,

We know that,

The amount will be shared among them as per their efficiencies

Share of C from the above amount = 9000 × (1/6)

⇒ 1500

∴ The required answer is 1500.

42. Answer: c

Explanation:

Detailed solution:-

$$\Rightarrow \frac{75}{28} \times \frac{7}{12} + \left[\frac{5}{12} + \left\{ \frac{5}{7} + \left(\frac{8}{12} \text{ of } \frac{36}{24} - \frac{1}{2} \right) \right\} \right]$$

$$\Rightarrow \frac{75}{28} \times \frac{7}{12} + \left[\frac{5}{12} + \left\{ \frac{5}{7} + \left(\frac{8}{12} \times \frac{36}{24} - \frac{1}{2} \right) \right\} \right]$$

$$\Rightarrow \frac{25}{4} \times \frac{1}{4} + \left[\frac{5}{12} + \left\{ \frac{5}{7} + \left(1 - \frac{1}{2} \right) \right\} \right]$$

$$\Rightarrow \frac{25}{4} \times \frac{1}{4} + \left[\frac{5}{12} + \left\{ \frac{5}{7} + \frac{1}{2} \right\} \right]$$

$$\Rightarrow \frac{25}{16} + \left[\frac{5}{12} + \left\{ \frac{10+7}{14} \right\} \right]$$

$$\Rightarrow \frac{25}{16} + \left[\frac{5}{12} + \left(\frac{17}{14} \right) \right]$$

$$\Rightarrow \frac{25}{16} + \left[\frac{70+204}{168} \right]$$

$$\Rightarrow \frac{25}{16} + \frac{274}{168}$$

$$\Rightarrow \frac{525+548}{336}$$

$$\Rightarrow \frac{1073}{336}$$

∴ The required answer is 1073/336.

43. Answer: b

Explanation:

Calculation:-

$$\Rightarrow 34 + 16 - a \times [40 \div 5 - 3] = 15$$

$$\Rightarrow 50 - a \times [8 - 3] = 15$$

$$\Rightarrow 50 - a \times 5 = 15$$

$$\Rightarrow 5a = 50 - 15$$

$$\Rightarrow a = 35/5$$

$$\Rightarrow a = 7$$

∴ The required answer is 7.

44. Answer: c

Explanation:

Given:-

(1) A man completes his journey in (T) 6 hours

(2) He covers half the distance at 10 km/h and the rest at 20 km/h

Formula used:-

$$\text{Time} = \text{Distance}/\text{Speed}$$

Calculation:-

Let's assume the total distance is 2D

We know that

$$\Rightarrow \text{Time} = \text{Distance}/\text{Speed}$$

$$\Rightarrow \frac{D}{10} + \frac{D}{20} = 6$$

$$\Rightarrow \frac{(2D+D)}{20} = 6$$

$$\Rightarrow 3D = 120$$

$$\Rightarrow D = 40$$

$$\Rightarrow \text{Total distance} = 2D = 80$$

∴ The required answer is 80

45. Answer: a

Explanation:

Given:-

The radius of the base and the height of a closed cylinder are 14 cm and 14 cm

Formula used:-

(1) The total surface area of the cylinder = $2\pi r(r + h)$

Where r = The radius of a closed cylinder

h = The height of a closed cylinder

(2) The area of a circle = πR^2

Where R = The radius of a circle

Calculation:-

As per the question,

The total surface area of the cylinder = The area of a circle

$$\Rightarrow 2\pi r(r + h) = \pi R^2$$

$$\Rightarrow 2r(r + h) = R^2$$

Put the value of r and h in the above equation

$$\Rightarrow 2 \times 14 (14 + 14) = R^2$$

$$\Rightarrow R^2 = 28^2 \Rightarrow R = 28 \text{ cm}$$

Diameter of the circle = 2R

$$\Rightarrow 2 \times 28 = 56 \text{ cm}$$

∴ The required answer is 56.

46. Answer: c

Explanation:

Given:-

A sum of ₹7,000 deposited at compound interest becomes triple of itself after 4 years

Formula used:-

(1) Amount = Principal + Compound Interest

$$(2) C.I = P(1 + \frac{R}{100})^T$$

Where C. I = Compound Interest,

P = Principal

R = Rate

T = Time

Calculation:-

A sum of ₹7,000 deposited at compound interest becomes triple of itself after 4 years.

So money after 4 years = $7000 \times 3 = 21000$

We know that Amount = Principal + $P(1 + \frac{R}{100})^T$

$$\Rightarrow 21000 = 7000(1 + (R/100)^4)$$

$$\Rightarrow (1 + (R/100)^4) = 3$$

Now apply the cube in the above equation.

$$\Rightarrow [(1 + (R/100)^4)]^3 = 3^3$$

.

$$\Rightarrow [(1 + (R/100)^4)]^{12} = 27$$

So from the above equation,

We can say that after 12 years money will be 27 times itself

Hence money after 12 years = $27 \times 7000 = 189000$

∴ The required answer is 189000

47. Answer: a

Explanation:

Given:-

A shopkeeper marks up his price by 12% and then allows a 12% discount.

Formula used:-

$$\text{Loss percentage} = (\text{Loss}/\text{CP}) \times 100$$

Calculation:-

Let's assume the cost price is 100y.

A shopkeeper marks up his price by 12%.

$$\text{Marked price} = 100y \text{ of } (100+12)\%$$

$$\Rightarrow 100y \text{ of } 112\%$$

$$\Rightarrow (100y \times 112)/100 \Rightarrow 112y$$

Then allows a 12% discount.

$$\text{Selling price} = 112y \text{ of } (100-12)\%$$

$$\Rightarrow 112y \text{ of } 88\% = 98.56y$$

$$\text{Loss percentage} = (\text{Loss}/\text{CP}) \times 100$$

$$\Rightarrow [(100y - 98.56y)/100y] \times 100$$

$$\Rightarrow 1.44\%$$

\therefore The required answer is 1.44

48. Answer: c

Explanation:

Given:-

The average of nine consecutive even numbers is 24.

Formula used:-

$$\text{Average} = \{\text{Sum of Observations}\} \div \{\text{Total number of Observations}\}.$$

Calculation:-

Let's assume nine consecutive even numbers are $y, (y+2), (y+4), (y+6), (y+8), (y+10), (y+12), (y+14)$ and $(y+16)$

The average of nine consecutive even numbers is 24

$$\text{Average} = \{\text{Sum of Observations}\} \div \{\text{Total number of Observations}\}.$$

$$\Rightarrow [y + (y + 2) + (y + 4) + \dots + (y + 16)]/9 = 24$$

$$\Rightarrow 9y + 72 = 24 \times 9$$

$$\Rightarrow 9y = 216 - 72$$

$$\Rightarrow y = 16$$

Average of the smallest three of these 9 given numbers

$$= [y + (y+2) + (y+4)]/3 = [3y + 6]/3 = y + 2$$

Put the value y above the equation

$$\Rightarrow 16 + 2 = 18$$

∴ The required answer is 18.

49. Answer: d

Explanation:

Given:-

(1) The number of pages read by Rishi = 60

(2) The number of pages read by Neha = 50

Formula used:-

$$\text{Percentage more} = [(higher\ value - lower\ value)/lowervalue] \times 100$$

Calculation:-

As per the question,

$$\text{The Percentage of more Rishi read than Neha} = [(60 - 50)/50] \times 100$$

$$\Rightarrow (10/50) \times 100$$

$$\Rightarrow 20\%$$

∴ The required answer is 20%.

50. Answer: d

Explanation:

Given:-

A sum of money amounts to 5 times itself in 20 years

Formula used:-

$$S.I = (P \times T \times R)/100$$

S.I = Amount - P

Here,

P = Sum or principal

T = time

R = rate

Calculation:-

Let the sum be P and the rate be R

Here,

Amount = 5P

So, interest = 5P - P = 4P

Now,

$$\Rightarrow 4P = (P \times 20 \times R)/100$$

$$\Rightarrow R = 400P/20P$$

$$\Rightarrow R = 20 \%$$

\therefore The required answer is 20%

51. Answer: d

Explanation:

The correct answer is No error

★ Key Points

- The sentence is **grammatically correct** .
- The **sentence formation is also correct** , subject , object and verbs are used at correct places.
- The **tense** used in this sentence has no error.
- The **punctuation** marks used are also correct.

★ Additional Information

Tenses Chart

Tenses	Rules and Formula
Simple Present Tense	Subject + Verb in the base form/third person plural form + the rest of the sentence
Present Continuous Tense	Subject + Helping Verb(am/is/are) + Main verb + ing + the rest of the sentence
Present Perfect Tense	Subject + Helping Verb (have/has) + Past participle of the main verb + the rest of the sentence along with the time frame
Present Perfect Continuous Tense	Subject + Have/Has + Been + Verb+ ing + the rest of the sentence
Simple Past Tense	Subject + Verb + ed / verb in the past tense + the rest of the sentence
Past Continuous Tense	Subject + Helping Verb(was/were) + Main verb + ing + the rest of the sentence
Past Perfect Tense	Subject + Helping Verb (had) + Past participle of the main verb + the rest of the sentence along with the time frame.
Past Perfect Continuous Tense	Subject + Had + Been + Verb + ing + the rest of the sentence

Simple Future Tense	Subject + will/shall + V1 + Object
Future Continuous Tense	Subject + will be/shall be + V1 + ing + Object
Future Perfect Tense	Subject + will have/shall have + V3 + Object
Future Perfect Continuous Tense	Subject + will have been + V1 + ing + Object

52. Answer: d

Explanation:

The correct answer is Abuse

★ Key Points

- *SYNONYM* is a phrase or word with the same or well almost the same meaning as another phrase or word.
- The word **Revile** means criticize abusively or angrily in an insulting way.
- The word **Abuse** means to say something bad or insulting.
- The meaning of Option 4, **Abuse** is similar to the meaning of the word **Revile**. Hence Option 4, Abuse is the answer.

★ Additional Information

- The word **Silence** means without any noise or sound.

Example : I want pin drop *silence* in the classroom.

- The word **Incite** means to persuade someone to do something by making him or her extremely angry or excited

Example : She was accused for *inciting* students for cancellation of exams.

- The word **Discourage** means to prevent someone from doing something, especially by convincing him or her that it would not be successful or a good idea

Example : My father *discouraged* me for going out with friends.

53. Answer: b

Explanation:

The correct answer is To waste time on useless things.

★ Key Points

- The **meaning** of idiom **flogging a dead horse** is squander energy on a lost cause or an unchangeable situation.
- The expression "**beat a dead horse**" comes from the mid-nineteenth century, when the practise of beating horses to make them run faster was widely accepted. It would be pointless to beat a dead horse because it would not be able to move.
- **Example** : She keeps trying to revive her dead relationship but I think she's **flogging a dead horse** .

★ Additional Information

Some more **idioms related to animals** are :

- **Ants in your pants** - Being restless and moving around due to excitement or nervousness.

Example : I have got **ants in my pants** today as we are going for a picnic after so long.

- **To smell a rat** - To be suspicious of a lie

Example : My mother was trying to **smell a rat** when I told her my test got cancelled.

- **Crocodile tears** – pretending or faking to cry to gain sympathy.

Example : Ria have a habit of shedding **crocodile tears**.

54. Answer: a

Explanation:

The correct answer is **Autocracy**.

★ Key Points

- The correct spelling should be **Autocracy** instead of **Autocrecy** .
- The meaning of word **Autocracy** is a form of government in a country in which one person has complete power.

Example : Adolf Hitler in Germany had an *autocratic* form of government.

★ Additional Information

- The word **Bureaucracy** means

Example : He has a good grasp of how the *bureaucracy* works.

- The word **Autonomy** means the right of a person, organization, region, or other entity to govern or control its own affairs

Example : I have *autonomy* to exercise my rights.

- The word **Anarchy** means a situation in which people do not follow rules and laws; a situation in which a country has no government

Example : Civil war and famine plunged the country into *anarchy* .

55. Answer: d

Explanation:

The correct answer is make plans

★ Key Points

- The word **make plans** means devise a strategy for overcoming obstacles.
- The word **make noise** means to make loud sounds
- The word **make a mess** means to create a dirty condition
- The word **make a mistake** means to do something wrong unintentionally.
- The above sentence is in **simple present tense** and the word "**make plans**" completes the above sentence and make the above sentence meaningful and appropriate.

★ Additional Information

Tenses Chart

prepp

Your Personal Exams Guide

Tenses	Rules and Formula
Simple Present Tense	Subject + Verb in the base form/third person plural form + the rest of the sentence
Present Continuous Tense	Subject + Helping Verb(am/is/are) + Main verb + ing + the rest of the sentence
Present Perfect Tense	Subject + Helping Verb (have/has) + Past participle of the main verb + the rest of the sentence along with the time frame
Present Perfect Continuous Tense	Subject + Have/Has + Been + Verb+ ing + the rest of the sentence
Simple Past Tense	Subject + Verb + ed / verb in the past tense + the rest of the sentence
Past Continuous Tense	Subject + Helping Verb(was/were) + Main verb + ing + the rest of the sentence
Past Perfect Tense	Subject + Helping Verb (had) + Past participle of the main verb + the rest of the sentence along with the time frame.
Past Perfect Continuous Tense	Subject + Had + Been + Verb + ing + the rest of the sentence

Simple Future Tense	Subject + will/shall + V1 + Object
Future Continuous Tense	Subject + will be/shall be + V1 + ing + Object
Future Perfect Tense	Subject + will have/shall have + V3 + Object
Future Perfect Continuous Tense	Subject + will have been + V1 + ing + Object

56. Answer: a

Explanation:

The correct answer is readily respond to these stimuli

★ Key Points

- The word **stimulus** mean anything that can trigger a physical or behavioral change.
- The plural of **stimulus is stimuli** , the above sentence require the plural form of word "stimulus".
- The meaning of above sentence is that **plants are ready to response to some stimuli.**

★ Additional Information

- A **singular noun** is a word that refers to one person, place, thing, event, substance, or quantity.

Examples : Lisa bought a **pencil** yesterday, Dan and Sid gave me **chocolate** .

- A **plural noun** is a word that refers to more than one person , place , event or thing.

Example : All the **buses** are parked in parking area , My mother got me few **dresses** yesterday.

57. Answer: a

Explanation:

The correct answer is Dread

★ Key Points

- **SYNONYM** is a phrase or word with the same or well almost the same meaning as another phrase or word.
- The word **Fright** means a sudden surge of fear or shock.
- The word **Dread** means to be terrified of or concerned about something.
- The meaning of Option 1, *Dread is similar to the meaning of the word Fright.* Hence Option 1, **Dread is the answer.**

★ Additional Information

- The word **Mockery** means comments or actions intended to make someone/something appear ridiculous

Example : He couldn't face any more of their *mockery*.

- The word **Composure** means the state of being calm and in command of one's emotions

Example : She was a little nervous at first, but she quickly regained her *composure* .

- The word **Bravery** means action of being brave.

Example : After the war all soldiers were honored with medals of *bravery* .

58. Answer: c

Explanation:

The correct answer is environment are not

★ Key Points

- The correct sentence formation should be "We are all aware that our environment *is* not what it used to be", in place of **are** it should be **is** .
- Environment is a singular word and with **singular words "is"** is used.
- "**Are**" is used with **plural words** not singular words.

★ Additional Information

- A singular noun is a word that refers to one person, place, thing, event, substance, or quantity.

Examples : Lisa bought a pencil yesterday, Dan and Sid gave me chocolate .

- A plural noun is a word that refers to more than one person , place , event or thing.

Example : All the buses are parked in parking area , My mother got me few dresses yesterday.

59. Answer: c

Explanation:

The correct answer is Resonate

★ Key Points

- All other words **EXCEPT Resonate** are not correctly spelt.

- The meaning of word Resonate is *to produce a deep, clear sound that lasts a long time.*

Example : The bass guitar started thumping so loudly that it *resonated* in my head.

★ Additional Information

- The correct spelling for word **Escapeade** is **Escapade** and it means an exciting but potentially dangerous experience

Example : His latest *escapade* was to camp outside a department store on the night before the sale

- The correct spelling for word **Progresion** is **Progression** and it means Moving forward or developing to next stage.

Example : The baby in the womb was *progressing* gradually.

- The correct spelling for word **Disccoverly** is **Discovery** and it means finding something new

Example : I *discovered* a mole on my neck today morning.

60. Answer: d

Explanation:

The correct answer is based at limit studies

★ Key Points

- In the above sentence instead of "at" , "on" should be used.
- On is used when **one thing is based or placed over other.**
- *Example* : The cat is **on** the table.

★ Additional Information

- A word or phrase used before a noun or pronoun to indicate location, time, direction, etc is called a **preposition**.
 - *Example* : In , on , out , under , over.
 - When referring to an address, we use **at** .
 - *Example* : I am **at** my home.
-

61. **Answer: a**

Explanation:

The correct answer is Infallible

★ Key Points

- The meaning of word **Infallible** is a person that never makes a mistake.

Example : No one in our group is an *Infallible* .

- **Synonyms** of word Infallible are unfailing, faultless, flawless, impeccable.
- **Antonyms** of word Infallible are erring, fallible, faulty, imperfect.

★ Additional Information

- The word **Fatalist** means someone who believes that people cannot change the course of events and that events, particularly bad ones, cannot be avoided.

Example : "I am not a *fatalist* ", he said.

- The word **Fanatic** means a person who is zealous about something and may hold extreme or dangerous views

Example : He is clearly a private practice and private bed *fanatic*

- The word **Cynic** means a person who believes that people only do things for themselves and not for the benefit of others

Example : He's too much of a *cynic* to see the benefits of marriage

62. Answer: c

Explanation:

The correct answer is A very small part of something big or whole

★ Key Points

- The meaning of this idiom is a **very small amount in comparison to the amount required.**
- This **idiom is used** when someone have to compare a small amount with amount needed.
- **Example** : Everything we raised was a **drop in the bucket.**
- The meaning of above idiom matches with **Option 3, hence option 3 is answer.**

★ Additional Information

Some more idioms are:

- **Hit the hay** - go to sleep

Example : I am feeling like I really need to **hit the hay.**

- **Up in the air** - unsettles or uncertain

Example : My plan of meeting my boyfriend is still **up in the air.**

- **Piece of cake** - easy to gain

Example : German is my **piece of cake.**

63. Answer: c

Explanation:

The correct answer is abode

★ Key Points

- The meaning of word abode is **a place to live**.
- **Example** - Can I **abode** at your place today?
- The meaning of the above sentence is "**The small hut will be my place to live for the next three days**".

★ Additional Information

- The meaning of word **Legacy** is money or property left to you after someone dies because he or she wanted you to have it

Example : My mother left me a **legacy** of million dollars.

- The meaning of word **Scout** is a soldier sent ahead of the rest of the group to find out where the enemy is or the best route to take

Example : 2-3 men were sent out as a **scout** .

- The meaning of word **Loaf** is a bread that is baked in one piece and can be cut into pieces.

Example : Can u pass me meat **loaf** ?

64. Answer: b

Explanation:

The correct answer is rage

★ Key Points

- The word **rage** means a difficult-to-control feeling of violent anger
- **Example** : My father can't control his **rage** .
- The *meaning* of above sentence is that "**He believes that due to his actions of violence and anger his children's heart are terrorized**."

★ Additional Information

- The meaning of word **Love** is a strong feeling when you like someone.

Examples : My husband **loves** me so much.

- The meaning of word **calmness** is being peaceful and quiet

Examples : I must appreciate her **calmness**

- The meaning of word **fortune** is a large amount of money.

Examples : Hope this doll brings some good **fortune** to you.

65. Answer: d

Explanation:

The correct answer is Peak

★ Key Points

- The word **peak** means the point at which something is at its highest, best, strongest, and so on.
- *Example* : The economic crises are at **peak** .
- The *meaning* of above sentence is " **Miss Samantha is at top in her popularity**".

★ Additional Information

- The word **pick** means to Select someone or something from a group of people or things.

Example : I will **pick** you you up at 8.

- The word **peek** means to examine something quickly and secretly because it should not be examined

Example : A little girl **peeked** around the corner of the chair at him

- The word **peck** means eating or biting something with its beak

Example : The parrot **pecked** my finger.

66. Answer: b

Explanation:

The correct answer is Defiant.

★ Key Points

- Antonym means a phrase or word with the opposite meaning as another phrase or word.
- The word **Flexible** means that can be changed easily or that agrees with anything.
- The word **Defiant** means openly refusing to obey something or somebody.
- The *meaning of word flexible is opposite of the meaning of word Defiant*. Hence Option 2 Defiant is the answer.

★ Additional Information

- The word **Complaint** means not getting satisfied with something and reporting about it.

Example : My son is always *complaining* about the food.

- The word **Peculiar** means unusual or strange.

Example : I was in a very *peculiar* situation today.

- The word **Reckless** means not considering the negative or dangerous consequences of your actions

Example : He is the most *reckless* person I have ever met.

67. Answer: b

Explanation:

The correct answer is woke up from their sleep

★ Key Points

- In the above sentence "**their**" should be used instead of "**its**".
- **It** is used for non living things or objects while **their** is used for living things.
- The above sentence is talking about **monkeys which are living things** , so their should be used in place of its.
- Because their is the **possessive form of they** , it refers to what belongs to, relates to, or is made or done by specific people, animals, or things.

★ Additional Information

Tenses Chart



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Tenses	Rules and Formula
Simple Present Tense	Subject + Verb in the base form/third person plural form + the rest of the sentence
Present Continuous Tense	Subject + Helping Verb(am/is/are) + Main verb + ing + the rest of the sentence
Present Perfect Tense	Subject + Helping Verb (have/has) + Past participle of the main verb + the rest of the sentence along with the time frame
Present Perfect Continuous Tense	Subject + Have/Has + Been + Verb+ ing + the rest of the sentence
Simple Past Tense	Subject + Verb + ed / verb in the past tense + the rest of the sentence
Past Continuous Tense	Subject + Helping Verb(was/were) + Main verb + ing + the rest of the sentence
Past Perfect Tense	Subject + Helping Verb (had) + Past participle of the main verb + the rest of the sentence along with the time frame.
Past Perfect Continuous Tense	Subject + Had + Been + Verb + ing + the rest of the sentence

Simple Future Tense	Subject + will/shall + V1 + Object
Future Continuous Tense	Subject + will be/shall be + V1 + ing + Object
Future Perfect Tense	Subject + will have/shall have + V3 + Object
Future Perfect Continuous Tense	Subject + will have been + V1 + ing + Object

68. Answer: d

Explanation:

The correct answer is "is"

★ Key Points

- "Is" will be used to fill the above blank.
- "Is" is used with a verb in **present tense** .
- *Example* : This **is** a nice jacket.
- The *meaning* of above sentence is "**Age of participants if an important factor in this competition**"

★ Additional Information

- **Am** stands for first person singular (I am).

Example : I **am** a good girl.

- **Is** stands for third person singular (he, she, it is)

Example : He **is** a kind boy.

- **Are** stands for first person plural (we are), second person singular and plural (you are), and third person plural (it is) (they are)

Example : They **are** not worth appreciation.

69. **Answer: c**

Explanation:

The correct answer is No other information

★ Key Points

- In the above sentence instead of **informations** , it should be **information** .
- Information is an **uncountable noun** that does not have a plural.
- "s" is used in a word to show plural existence but there is **no plural form of word "information"**.
- *Example* : Can you provide me some **information** about this dish?

★ Additional Information

- A **singular noun** refers to only one person, thing, object . Ex - girl, boy , toy.

Example : Ria is playing with my **doll** .

- A **plural noun** refers to more than one person, thing or object. Ex - girls, boys, toys

Example : Ria have so many **dolls** .

70. **Answer: c**

Explanation:

The correct answer is Mercenary

★ Key Points

- The word **Mercenary** means a soldier who fights for any organization or country willing to pay him/her.

Example : Canada is hiring foreign *mercenaries*.

- Some **synonyms** of word Mercenary are *acquisitive, avaricious, covetous, rapacious*.
- Some **antonyms** of word Mercenary are *altruistic, philanthropic*.

★ Additional Information

- The word **Debtor** means a person , organization who owes money.

Example : The *debtor* will pay all his debts soon.

- The word **Contractor** means a person who is hired to build something.

Example : The *contractor* of this property is not present today.

- The word **Player** means a person that plays any sport.

Example : I am a basketball *player*.

Your Personal Exams Guide

71. **Answer: c**

Explanation:

The correct answer is born

★ Key Points

- The word born means **to come into this world by birth**.
- *Example* : I was **born** in a rich family.
- The **meaning** of above sentence is that Mahalia Jackson come into this world and she got birth in a preacher's family in 1911.

★ Additional Information

- The word **Adorn** means to add something to make something or someone more appealing or beautiful

Example: My mother *adorned* me with thousands of jewels.

- The word **worn** means as a result of extensive use, damaged and shabby

Example: He was wearing **worn** out clothes.

- The word **Scorn** means the strong feeling you get when you don't respect someone or something

Example: The President **scorned** his detractors.

72. Answer: d

Explanation:

The correct answer is whisper.

★ Key Points

- The *meaning* of word **Whisper** is to whisper into someone's ear so that other people cannot hear what you are saying
- *Example:* My mother **whispered** some secret code in my ear.
- The **meaning** of above sentence is that When Mahalia Jackson was a little girl she would slowly talk to herself.

★ Additional Information

- The word **Glimmer** means a shaky, intermittent light

Example: I could see a faint **glimmer** of light in one of the windows

- The word **Crisper** is a comparative adjective of word **Crisp** which means satisfyingly tough and dry

Example: I like **crisp** biscuits.

- The word **Prosper** means to grow successfully; to be successful, especially financially

Example : He **prospered** as a businessmen.

73. Answer: c

Explanation:

The correct answer is Scrubbed

★ Key Points

- The word **Scrubbed** is past tense of word **Scrub** which means to clean something with soap and water by rubbing it vigorously, usually with a brush.
- *Example* : My step mother force me to **scrub** floor and dishes.
- The **meaning** of above sentence is that Jackson use to earn her living by cleaning floors and she never though she would earn by singing.

★ Additional Information

- The word **Stubbed** is past tense of word **Stub** which means unintentionally brush up against something

Example : I **stubbed** my toe.

- The word **Clubbed** is past tense of word Club which means join forces with others to raise funds for a specific purpose.

Example : US army **clubbed** with Russian army for specific reasons.

- The word **Grubbed** is past tense of word **Grub** which means dig or poke around in the soil

Example : Badgers **grubbing** for worms cause pasture damage.

74. Answer: a

Explanation:

The correct answer is Laundered

★ Key Points

- The word **Laundered** is past tense for word **launder** which means to wash and dry cloths.
- *Example* : My wife gave me some freshly **laundered** sheets.
- The **meaning** of above sentence is that She washed the clothes and worked as maid , factory worker and did some off jobs to earn her living.

★ Additional Information

- The word **Pondered** is past tense for word **ponder** which means to consider something carefully or for an extended period of time

Example : He pondered the question before responding.

- The word **Unsoldered** is past tense for word **Unsolder** which means remove the soldering.

Example : He unsoldered the blue wire that connected to the switch.

- The word **Considered** is past tense for word **Consider** which means to carefully consider something before making a decision

Example : Do consider what I said before taking any decision.

75. Answer: b

Explanation:

The correct answer is voice

★ Key Points

- The word **voice** means the sounds you make when speaking or singing; your ability to make these sounds.
- *Example* : I love my **voice**
- The **meaning** of above sentence is that as the sound of her throat was very beautiful she got invitations to sing at various places and events.

★ Additional Information

- The word **keeping skills** means managing skills

Example : Her **keeping skills** are worth applause.

- The word **Beauty** means the state of being beautiful; the quality that gives pleasure to the senses

Example : She is a black **beauty** , trust me.

- The word **Cleaning** is present participle of word clean which means to remove dirt or dust from an object or place

Example : My cloths are neat and **clean** .

76. Answer: b

Explanation:

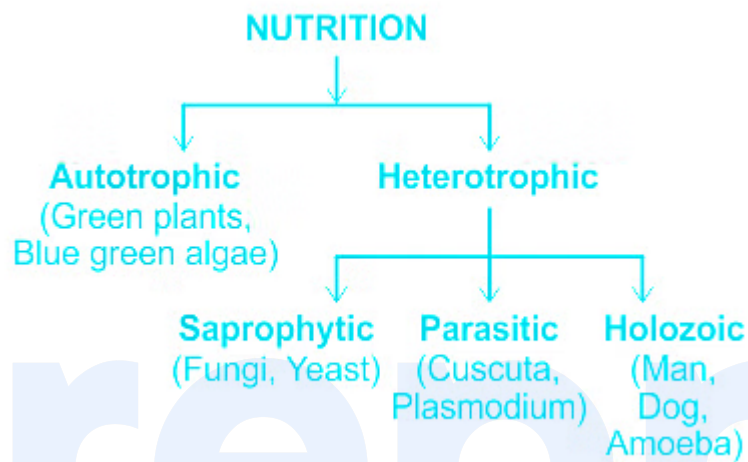
The correct answer is Green plants.

★ Key Points

- Autotrophs
 - Autotrophs are organisms that can produce their own food, using materials from inorganic sources by using basic energy sources such as sunlight.
 - Plants are the main example of autotrophs, using photosynthesis.

- Some autotrophs, such as green plants and algae, are phototrophs, they convert electromagnetic energy from sunlight into chemical energy in the form of glucose. So, Spinach, Tomato, Banana are also examples of autotrophs.

Mode of Nutrition:



★ Additional Information

- Protozoa
 - **Protozoa** come under **Kingdom Protista**.
 - Protozoa is 3rd largest phylum.
 - **Protozoa** include unicellular eukaryotes.
 - They believed to be primitive **relatives of animals**.
 - They are **heterotrophs**.
 - They live as predators or **parasites**.
- **Virus**
 - The term Virus in Latin means Poison.
 - Viruses are small submicroscopic pathogenic agents that infect all the different life forms, from animals and plants to microbes and archaea.
 - TMV was the first discovered virus.
 - The study of Virus is called Virology

77. Answer: c

Explanation:

The correct answer is Slam dunk.

★ Key Points

- **Slamdunk:**
 - A basketball slam dunk occurs when a **player jumps in the air** and **drives the basketball** through the hoop while **touching the rim** with one or two hands.
 - A successful dunk is **worth two points for the offense team**.
 - The official score of the play is a **field goal** for that player since it is an **attempt to score**.
- **Terms associated with cricket are:**
 - Toss, Run, Wicket, Pitch, Crease, Pavilion, Wicket Keeper, Over, Maiden Over, Follow-on, Ashes, Catch, Bowled, Stump Out, Run Out, L.B.W, Hit Wicket, Not out, No ball, Wide ball, Dead ball, Overthrow, Bye, Leg bye, Cover drive.

★ Additional Information

Terminologies associated with some other sports

- **Hockey**
 - Bully, Sudden death, Short corner, Hat trick, Goal, Penalty Corner, Penalty, etc.
- **Football**
 - Goal, Kick, Head, Penalty kick, Dribble, Offside, Hat trick, Foul, Stopper, Move, Side back, Pass, Baseline, Rebound, etc.
- **Chess**
 - Grand Master, Gambit, Kings Indian Defence, etc.

78. Answer: d

Explanation:

The correct answer is Ugadi.

★ Key Points

• **Ugadi**

- Ugadi, which is observed as Andhra Pradesh's **Hindus' New Year's Day**, is observed on the first day of the Hindu Luni-Solar Calendar in the month of **Chaitra**.
- According to the Gregorian calendar, it takes place in either **March or April**.
- This Indian holiday **heralds** the arrival of pleasure, joy, hope, and light.
- The Sanskrit words "**Yuga**," which means age, and "**adi**," which means the beginning, are combined to form the word "**Ugadi**."
- It denotes the start of a new era in **plain terms**.
- In Karnataka, Andhra Pradesh, and Telangana, this holiday is celebrated with **great zeal and passion**.

★ Additional Information

• **Onam**

- Onam is an ancient festival and state festival of **Kerala**.
- This ten-day festival falls during the Malayalam month of Chingam (August-September).
- Onam marks the homecoming of King Mahabali, a legendary king who ruled Kerala in ancient times.
- His reign was believed to be the golden age of Kerala which was ended by Vamana who pushed him deep into the earth and granted Mahabali to come once in a year to his state.
- The central feature of Onam is the grand feast called Onam sadya.

• **Gudi Padwa**

- **Gudi Padwa** is celebrated on the first day of the month of **Chaitra**, according to the Hindu calendar.
- Indians celebrate the festival of Gudi Padwa **marking the arrival of spring and which coincides with the start of the New Year for Marathi and Konkani Hindus in the subcontinent**.
- It is celebrated in the state of **Maharashtra and Goa**.

- The festival is also known as **Samvatsar Padvo**.
- Pongal
- Pongal is a multi-day harvest Hindu festival of South India and the Tamil community.
 - It is observed at the **start of the month Tai** according to the Tamil solar **calendar** and this is typically about **January 14**.
 - It is dedicated to the **Sun god, the Surya**, and corresponds to Makar Sankranti, the harvest festival under many regional names celebrated throughout India.
- The **festival marks the end of the winter solstice, and the start of the sun's six-month-long journey northwards** when the sun enters the zodiac **Makara** (Capricorn).
- Pongal festival is celebrated for four days in Tamil Nadu.
 - The **first day** of Pongal is called **Bhogi Pongal**.
 - The **second day** of Pongal is called **Surya Pongal**.
 - The **third day** of Pongal is called **Mattu Pongal**.
 - The **fourth day** of Pongal is called **Kaanum Pongal**.

79. Answer: c

Explanation:

The correct answer is 1984.

★ Key Points

- **Bhopal Gas Tragedy:**
 - It happened on **December 3, 1984**.
 - It was happened due to leakage of **Methyl Isocyanate** (CH_3NCO) from the pesticide plant of Union Carbide (now Dow Chemicals), an MNC, in Madhya Pradesh capital Bhopal.
 - It is estimated that about 40 tonnes of gas and other chemicals leaked from the Union Carbide factory.
 - Methyl isocyanate is an extremely toxic gas and if its concentration in the air touches 21ppm (parts per million), it can cause death within minutes of

inhaling the gas.

- It is one of the worst chemical disasters globally and still continues to have its ill effects on the people of the affected areas.
- After the tragedy, the government of India enacted a **Public Liability Insurance Act (1991)** that meant to provide immediate relief to victims of accidents involving hazardous industries.
 - Under the Act, an environment relief fund was set up to compensate affected people.

80. Answer: c

Explanation:

The correct answer is Steatite.

★ Key Points

- Thousands of seals have been discovered by archaeologists from the Harappan sites.
- Most of the seals were made of steatite which is a kind of soft stone.
- A few of them were also made of terracotta, gold, agate, chert, ivory, and faience.
- The size of the Harappan seal was 2.54 cm X 2.54 cm. (Average Size).
- **Different use of Seal**
 - It is believed that the seals were used for commercial purposes.
 - A few seals were also carried as amulets, perhaps as a kind of identity card.
 - Some seals have mathematical images and must have been used for educational purposes.
- All the seals have pictures of animals with something written in a pictographic script (which is yet to be deciphered).
- Chiefly, the animals represented are tigers, elephants, bulls, bison, goats, and so on.
- Most of the seals have been written on both sides.
- The writings are in the Kharosthi style (right to left).

- The most famous seal is the Pashupati Seal of Harappan civilization from Mohenjo Daro.
 - It is a seal with a figure seated cross-legged in the centre with animals around; **an elephant and a tiger to the right of the figure and a rhino and a buffalo to its left.**
-

81. Answer: d

Explanation:

The correct answer is Pandit Ravi Shankar.

★ Key Points

- Sitar maestro **Pandit Ravi Shankar** will be honoured with a Grammy Lifetime Achievement Award posthumously, organizers of the **Recording Academy announced**, the first Indian to get the prestigious award.
- The award would be presented on February 10 at the **55th** Grammy Awards ceremony in **Los Angeles**.
- Shankar was a true pioneer in introducing **Indian music** to the West, he said, adding the music icon influenced artists across classical, jazz, pop, rock, and world music genres, including the Beatles, John Coltrane, Philip Glass, and his daughters, Norah Jones and Anoushka Shankar.

★ Additional Information

- **Grammy Award**, any of a series of awards presented **annually** in the **United States** by the **National Academy of Recording Arts & Sciences**.
 - Winners are selected from more than **25 fields**, which cover such genres as **pop, rock, rap, R&B, country, reggae, classical, gospel, and jazz**, as well as production and postproduction work, including **packaging and album notes**.
 - **Anoushka Shankar** is a British Indian sitar player and composer.
 - She is the daughter of Pandit Ravi Shankar
-

82. Answer: c

Explanation:

The correct answer is he has the choice of either approaching the Supreme court directly or the High court .

★ Key Points

- If a **fundamental right of a citizen of India** is **violated**, he has the choice of either approaching the **Supreme court** directly or **the High court**.
- **Provision for Laws Violating Fundamental Rights: Article 13** of the Indian constitution declares that **all laws that are inconsistent with or in derogation of any of the fundamental rights shall be void**.
- This power has been conferred on the **Supreme Court (Article 32)** and the **high courts (Article 226)**. Further, the article declares that a constitutional amendment cannot be challenged (as it is not a law).
- The courts can issue various kinds of **writs**. These writs are **habeas corpus, mandamus, prohibition, quo warranto and certiorari**. Dr. B.R. Ambedkar rightly declared Right to constitutional remedies as "**the heart and soul**" of Indian constitution. When a national or state emergency is declared, this right is suspended by the central government.

★ Additional Information

- The Constitution of India protects the Fundamental Rights of citizens of India.
- Fundamental rights are those rights that are essential for the intellectual, moral, and spiritual development of citizens of India.
- They are enshrined in **Articles 12–35 in Part III of the constitution**. It is a borrowed feature from the constitution of the USA.
- There are Six fundamental rights recognized by the Indian constitution.
 - Right to Equality (**Articles 14–18**)
 - Right to freedom (**Articles 19–22**)
 - Right Against Exploitation (**Articles 23–24**)
 - Right to freedom of Religion (**Articles 25–28**)
 - Cultural and Educational Rights (**Articles 29–30**)

- Right to constitutional Remedies (Articles 32–35)

83. Answer: d

Explanation:

The correct answer is Mubarakan.

★ Key Points

- **Sonu Nigam** is the most recent recipient of a Grammy as he took home the award in the category of 'Mubarakan Album' for 'Mubarakan'.
- **Grammy Award**, any of a series of awards presented annually in the **United States** by the National Academy of Recording **Arts & Sciences**.
- Winners are selected from more than **25 fields**, which cover such genres as **pop, rock, rap, R&B, country, reggae, classical, gospel, and jazz**, as well as production and postproduction work, including packaging and album notes.

★ Additional Information

- **The Grammy Awards** were first presented by **NARAS (National Academy of Recording Arts & Sciences)** in **Los Angeles** in **1959**, when **28 prizes** were given.
- Winners included **Ella Fitzgerald, Frank Sinatra, and the Kingston Trio**. The number of awards has increased as musical genres have emerged.
- **Rock** was first recognized as a genre by the academy at the **1980** ceremony and **rap** at the **1989** presentation. An award for best music video was first handed out in **1982** to acknowledge the **growing influence of the medium**.
- In **2011 NARAS** radically restructured the **Grammy category system** and reduced the total number of awards from **109 to 78**. Gender-based categories were eliminated, as were those that distinguished between solo and group efforts.
- Awards recognizing genres such as Hawaiian music, Native American music, and zydeco were folded into a single category, dubbed "regional roots music," and instrumental categories were drastically scaled back. Further adjustments were made in subsequent years, and by 2017 the number of awards stabilized at 84.

84. Answer: a

Explanation:

The correct answer is Canada.

★ Key Points

- The countries that belong to the polar regions are **Canada, Greenland, Iceland, Norway, Sweden, Finland, and Alaska in the USA and the Siberian region of Russia.**
- **The polar region** is the area around the **North Pole or the South Pole**. The northern polar region consists mainly of floating and pack ice, **7–10 feet (2–3 m) thick**, floating on the Arctic Ocean and surrounded by land masses.
- **Polar regions** are covered with snow and it is very cold for the most part of the year. Sun does not set at the pole for **six months** and the sun does not rise for the other **six months**. Temperature goes as low as **–37 degrees C** in winter.
- The **Polar Bear, Caribou, Snowy Owl, Arctic Hare, Arctic Fox, Narwhal, Walrus, Musk ox and Beluga Whale** are some of the animals which live in the Arctic.

★ Additional Information

- Both the Arctic (North Pole) and the Antarctic (South Pole) are very cold because they get very little direct sunlight. The Sun is always low on the horizon, even in the middle of summer. In winter, the Sun is so far below the horizon that it doesn't come up at all for months at a time.
- Since the weather is so so cold, there are not very many animals that live in these polar climates. Animals that do live in these areas have adapted over the years to be able to survive in freezing temperatures, tons of snow, and strong, blowing winds.
- The most well-known animal that lives in polar climates is the polar bear, a huge mammal that has a thick layer of body fat and a fur coat that is water-repellent to protect it from the freezing waters.
- There are many things that threaten the polar region, but the biggest of these is climate change, which is when the temperature of the earth gets hotter. As

the temperature of the earth continues to rise, the ice in the polar areas melts, which makes the land and coastlines get smaller.

85. Answer: b

Explanation:

The correct answer is **Uttar Pradesh**.

★ **Key Points**

- Kathak is one of the eight major forms of Indian classical dance.
- It is the classical dance form of Uttar Pradesh.
- Kathak is derived from the Vedic Sanskrit word.
- Katha which means "story", and Kathakar which means "the one who tells a story", or "to do with stories".
- Kathak evolved during the Bhakti movement, incorporating the childhood and stories of the Hindu god Krishna.
- During the Mughal rule, the emperors were patrons of Kathak dance and actively promoted it in their royal courts.
- It is the only Indian classical dance form to feature Persian elements.

★ **Additional Information**

- **Tamilnadu** -
 - The **Bharatanatyam** is one of the major classical dances of India which finds its origin in **Tamilnadu**.
 - This Tamil Nadu dance is performed by ladies showcasing South Indian religious themes.
 - This solo dance is noted for remarkable footwork and sign language based on gestures of hands and eyes. Most of the themes of the dance are based on Hindu legends.
 - There is a deep spiritual meaning behind **Bharatanatyam**, and it is believed that it is the best form of dance.
 - This ancient form of dance is a living art form that has evolved over the past two centuries. Its beautiful hand and eye movements make it a

visual treat, and it is considered the personification of the music.

- **Manipur -**

- Manipur dance has a large repertoire, however, the most popular forms are the **Ras, the Sankirtana and the Thang-Ta**.
- There are five principal Ras dances of which four are linked with specific seasons, while the fifth can be presented at any time of the year. In Manipuri Ras, the main characters are **Radha, Krishna, and the gopis**.
- The themes often depict the pangs of separation of the gopis and Radha from Krishna. The parents or pure dance sequences performed in the Rasleela dances follow the specific rhythmic patterns and body movements, which are traditionally handed down. The Ras costume consists of a richly embroidered stiff skirt that extends to the feet.

- **Assam -**

- **Satriya Nritya** is the classical dance form of Assam which represents the Satriya culture, the basis of the religious and cultural fabric of Assam. It is one among eight principal classical Indian dance traditions.
- Whereas some of the other traditions have been revived in the recent past, Satriya has remained a living tradition since its creation by the founder of Vaishnavism in Assam, the great saint Srimanta Sankardeva, in 15th century Assam.
- The core of Satriya Nritya has usually been mythological stories. This was an artistic way of presenting mythological teachings to the people in an accessible, immediate, and enjoyable manner.

86. **Answer: d**

Explanation:

The correct answer is Tokyo.

★ **Key Points**

- Saikhom Mirabai Chanu is a weightlifter who hails from Manipur, India.
 - She competed in the women's 49-kilogram division at the Olympic Games in Tokyo in 2020 and earned the silver medal.

- Because of her hard work and dedication to the sport, the government of India honoured her with the Padma Shri award in 2018.
- In 2018, the Government of India honoured her with Major Dhyan Chand Khel Ratna for her achievements in the athletic world.
- **Mirabai Chanu** won the first **gold** for India with a **combined lift of 201kg** in the **Women's 49kg** weightlifting final at the **Commonwealth Games 2022** in **Birmingham** on **July 30, 2022**.

★ Additional Information

- Imphal serves as the capital of the Manipur state in northeastern India.
- Its borders are formed by the Indian states of Nagaland to the north, Assam to the west, and Mizoram to the south. In addition, it has shared borders with two regions of Myanmar: Sagaing Region to the east and Chin State to the south.
- For more than 2,500 years, Manipur has served as a hub for commercial and cultural interchange throughout Asia.
- Manipur's economy is predominantly agrarian, but it has tremendous potential for producing hydroelectric electricity. Daily flights from Imphal Airport, the second-largest in northeastern India, connect it to neighbouring regions.

87. Answer: a

Explanation:

The correct answer is **M4**.

★ Key Points

- **Broad money** is a category for measuring the **amount of money circulating in an economy**.
- It is defined as the most **inclusive method of calculating** a given country's **money supply**.
- **Central banks** tend to keep tabs on broad money growth to help **forecast inflation**.
- **Central banks** often look at **broad money, alongside narrow money, to set monetary policy**.

- The value of the currency depreciates as inflation rises. This is why the RBI keeps track of the money supply by categorizing it as 'reserve money,' 'narrow money,' and 'broad money.'
- Money supply refers to the total amount of money in circulation among the general population at any one moment. M1, M2, M3, and M4 are the four money supply measurements released by the RBI.
- M1 includes money in circulation plus checkable deposits in banks.
- M2 includes M1 plus savings deposits and money market mutual funds.
- M3 includes M2 plus large-time deposits in banks.
- M0 includes the narrowest forms, and M4 includes the broadest forms – M0/M1/M2/M3/M4.

★ Additional Information

Mo(Reserve Money)	Currency in circulation + Bankers' deposits with the RBI + 'Other' deposits with the RBI
M1 (Narrow Money)	Currency with the public + Deposit money of the public
M2	M1 + Savings deposits with Post office savings banks
M3 (Broad Money)	M2+ Time deposits with the banking system
M4	M3+ All deposits with the post office savings banks.

88. Answer: a

Explanation:

The correct answer is The Promise.

★ Key Points

- South African author Damon Galgut has won the 2021 Booker Prize for Fiction for his novel *The Promise*.
- He won the award in his third appearance on the shortlist after making the cut in 2003 and 2010.
- He follows in the footsteps of other South African winners Nadine Gordimer and JM Coetzee and is the first winner from the country since 1999.

★ Important Points

- *A Passage North* was written by Anuk Arudpragasam.
- **The Fortune Men** was written by **Nadifa Mohamed**.
- *Great Circle* was written by Maggie Shipstead.

★ Additional Information

- Booker Prize:
 - The Booker Prize, formerly known as the Booker Prize for Fiction and the Man Booker Prize, is a literary prize awarded each year for the best novel written in English and published in the United Kingdom or Ireland.
 - The winner of the Booker Prize receives international publicity which usually leads to a sales boost.
 - It was first awarded in 1969.
 - Indian Winners:
 - V.S. Naipaul in 1971.
 - Salman Rushdie in 1981.
 - Arundhati Roy in 1997.
 - Kiran Desai in 2006.
 - Aravind Adiga in 2008.

89. Answer: b

Explanation:

The correct answer is 15 to 59.

★ Key Points

- The workforce population typically includes individuals between the ages of 15 and 59.
- They are considered to be in their prime working years and are most likely to participate in the labour force.
- This age range is also associated with the ability to bear and raise children, which is an important factor in determining the size and composition of a country's labour force.
- While individuals above the age of 59 may still be actively engaged in the workforce.
- They are typically not included in the workforce population due to retirement, disability, or other factors that may limit their ability to work.
- Similarly, children under the age of 15 are considered economically inactive, as **they are not yet of legal working age and are primarily dependent on adults for their basic needs.**

★ Important Points

- It's important to note that the workforce population is a useful demographic indicator for assessing a country's labour force and economic productivity.
- It is not the only factor that determines the strength and vitality of an economy.
- Other factors, such as **education, training, technological innovation, and social policies, can also play a significant role in shaping the economic landscape of a country.**

★ Additional Information

- While the population of a nation can be broadly categorized into these three groups, it is important to note that these categories are not fixed and can vary depending on the specific context and demographic characteristics of a given population.
- Additionally, the **age ranges for each category can also vary depending on cultural and societal norms.**
- Furthermore, it is important to recognize that each category has **unique needs and contributions to society.**

- Children may not be economically productive, **but they are the future of a nation and investing in their education and well-being is essential for long-term development.**
- Similarly, while the aged may not be as **physically productive as those in the age-at-work category, they often have valuable knowledge and experience that can be utilized in various ways,** such as through volunteering or mentoring.
- Overall, a holistic approach that recognizes the diverse needs and contributions of different age groups is necessary for sustainable development and societal progress.

90. Answer: d

Explanation:

The correct answer is Neon.

★ Key Points

- **Noble gases/elements**, also known as **inert gases** and **aerogens**.
- The elements that belong to group 18 of the modern periodic table.
- **The elements that belong to this group are**
 - Helium (He)
 - Neon (Ne)
 - Argon (Ar)
 - Krypton (Kr)
 - Xenon (Xe)
 - Radon (Rn)
- Under standard conditions for temperature and pressure, all the noble gases exist in the gaseous phase.
- They are known to possess extremely low chemical reactivity (hence the name inert gas).
- This is because all noble gases have stable electronic configurations.
- This is the reason why noble gases do not form molecules easily and are mostly found as monoatomic gases.

- The general electronic configuration of the noble gases can be written as ns^2np^6 .
- Therefore, the outermost valence shells of the noble gases can be considered as 'full'.
- This is the reason behind the chemically inert nature of the group 18 elements.

★ Additional Information

- Halogens
 - The **halogens** are a group in the periodic table consisting of **five or six chemically related elements: fluorine, chlorine, bromine, iodine (I), and astatine.**
 - The artificially created **element 117, tennessine, may also be a halogen.**
 - In the modern **IUPAC** nomenclature, this group is known as group 17.
- Halogens
 - It consists of the chemical elements **lithium, sodium, potassium, rubidium, caesium, and francium.**
 - Together with hydrogen, they constitute group 1, which lies in the s-block of the periodic table.
- Conductor
 - In physics and electrical engineering, a conductor is an object or type of material that allows the flow of charge in one or more directions.
 - Materials made of metal are common electrical conductors.

91. Answer: d

Explanation:

The correct answer is Bappi Lahiri.

★ Key Points

- Singer-composer **Bappi Lahiri** popularised **disco music** in Indian cinema in the **80s and 90s.**
- He was 69.

- He had multiple health issues.
- Passed away in February 2022 due to OSA (obstructive sleep apnea).

★ Important Points

- Bappi Lahiri was born Alokesh Lahiri in 1952 in West Bengal's Jalpaiguri.
- His father Aparesh Lahiri and his mother Bansari Lahiri were Bengali singers and musicians.
- He began his musical journey at the age of 3.
- He learned to play the tabla and impressed one and all.
- The singer went on to be known as the King Of Disco.
- He was nominated for the Best Music Director for the Filmfare Awards 6 times between 1982–2018.
- The veteran singer took home the Lifetime Achievement Award from Filmfare in 2018.



92. Answer: b

Explanation:

The correct answer is Tarabai Shinde.

★ Key Points

- Tarabai Shinde, a woman educated at home at Poona, published a book, Stripurushtulna, (a Comparison between Women and Men), criticising

the social differences between men and women.

- It is believed to be the first modern feminist text of India.
- It serves as a critique of the place of women in Hindu scriptures and questions upper-caste patriarchy.
- It questions the ideological fabric of the patriarchal society, as 'women everywhere are similarly oppressed'.
- **It analyses the tightrope women must walk between a 'good woman' and a 'prostitute'.**

★ Additional Information

- **Anita Desai:**
 - Known for insightful novels like "Clear Light of Day" and "In Custody".
 - Multiple accolades such as **Sahitya Akademi Award and Padma Bhushan.**
- **Shashi Deshpande:**
 - Renowned Indian novelist and short story writer.
 - Works such as "That Long Silence" and "The Binding Vine" won her awards like the **Sahitya Akademi Award and the Padma Shri.**
- **Pandita Ramabai:**
 - Indian social reformer and writer.
 - Known for **their autobiographical work "The High Caste Hindu Woman" and was founder of the Mukti Mission.**

Your Personal Exams Guide

93. Answer: c

Explanation:

The correct answer is Kushana.

★ Key Points

- Kushana dynasty (1st Century AD–3rd Century AD):
 - Kujula Kadphises was the first Yuezhi chief to lay the foundation of the Kushana dynasty in India.
 - The second king was Vima Kadphises who issued gold coins.
 - The most famous Kushan ruler was Kanishka (78 AD–101AD)

- Kanishka was also known as 'Second Ashoka'.
- Kanishka started the Saka era in 78 AD, which is used by the government of India.
- The Kushans controlled the famous silk route.
- The 4th Buddhist council was held in Kundalvana, Kashmir under the patronage of Kanishka.
- The Kushans were the first rulers in India to issue gold coins on a wide scale.
- Vasudev I was the last great Kushana ruler.

★ Additional Information

- **Mughal Empire (1526–1857)** was founded by Babur and expanded by Akbar the Great.
 - It was known for its **significant cultural, architectural, and artistic achievements, as well as its centralization of power and administration.**
- **Maurya Empire (322 BCE–185 BCE)** was established by Chandragupta Maurya and is considered the first empire to unify much of India.
 - It was known for its strong **centralized administration, efficient governance, and significant contributions in the areas of art, literature, and philosophy.**
- **Gupta Empire (320 CE–550 CE)** was established by Chandragupta I and is considered the Golden Age of India.
 - It was known for its advancements in **science, mathematics, and medicine, as well as its flourishing art and literature.**
 - The Gupta Empire was also characterized by a decentralized political system.

94. Answer: b

Explanation:

The correct answer is Option 2.

★ Key Points

- **After Razia Sultan**, several rulers came to power in **Delhi**. Here is a list of some of the significant ones:
 - **Ghiyasuddin Balban**: He was a nobleman in the court of Iltutmish, who later became the Sultan of Delhi in 1266. He was known for his administrative and military reforms and was considered one of the most powerful rulers of the Delhi Sultanate.
 - **Muizuddin Qaiqabad**: He was the eighth Sultan of Delhi and ruled from 1287 to 1290. He was a weak ruler and was assassinated by his own army commander.
 - **Jalaluddin Khilji**: He was the founder of the **Khilji dynasty** and ruled from **1290 to 1296**. He was a good administrator and known for his generosity, but his reign was marred by rebellions and revolts.
 - **Alauddin Khilji**: He was the most famous ruler of the **Khilji dynasty** and ruled from **1296 to 1316**. He was known for his military conquests, administrative reforms, and economic policies.
 - **Muhammad bin Tughlaq**: He was the Sultan of Delhi from **1325 to 1351**. He was a highly educated and intelligent ruler, but his policies were often unsuccessful, and his reign was marked by several rebellions and revolts.
 - These were some of the significant rulers who came to power in Delhi after Razia Sultan.

★ Additional Information

- **Shamsuddin Iltutmish** was a **Sultan of the Delhi Sultanate in India**, who ruled from **1211 to 1236 CE**. He was born in **Central Asia**, and was purchased as a slave by **Qutbuddin Aibak**, the founder of the **Delhi Sultanate**. **Iltutmish** rose through the ranks of the **Sultanate** and became its ruler after the death of **Qutbuddin Aibak**.
- **Prithviraj Chauhan (1149-1192 CE)** was a legendary king of the Chauhan dynasty who ruled from his capital at Ajmer in present-day Rajasthan, India. He is known for his valor, chivalry, and romanticism. **Prithviraj Chauhan** was born to King **Someshwar Chauhan** and **Queen Karpuri Devi**. He was trained in warfare and archery from a young age by his teacher, Chand Bardai, who later wrote the epic poem "**Prithviraj Raso**" about his exploits.
- **Qutbuddin Aibak** was a slave who later became a prominent ruler in the **Delhi Sultanate of India**. He was born in **Central Asia** in the late **11th century** and was

purchased by Muhammad Ghori, a prominent Muslim ruler who was expanding his empire in India.

- **Qutbuddin Aibak** rose to prominence under Muhammad Ghori and was appointed as **the governor of Delhi in 1193 CE** after the Ghurid conquest of the city.
- **After Muhammad Ghori's death in 1206, Qutbuddin Aibak became the first Sultan of Delhi and established the Slave dynasty, which ruled over parts of northern India for nearly a century.** During his reign, Qutbuddin Aibak constructed several important buildings in Delhi, including the Qutub Minar, which is considered to be one of the finest examples of Indo-Islamic architecture.
- He also built the **Quwwat-ul-Islam Mosque, which is the oldest surviving mosque in India.** Qutbuddin Aibak died in 1210 CE after falling from his horse while playing polo. He was succeeded by his slave and close confidant, Iltutmish, who went on to establish the Sultanate of Delhi as a major power in India.

95. Answer: b

Explanation:

The correct answer is Option 2.

★ Key Points

- The Union Minister of Jal Shakti, Shri Gajendra Singh Shekhawat, launched the Sujalam 2.0 campaign for greywater management at a virtual event to mark World Water Day 2022.
- The campaign aims to manage greywater through people's participation and mobilize communities, institutions like panchayats, schools, and anganwadis to undertake greywater management.
- Greywater, if allowed to accumulate and stagnate, can turn into a major management and infrastructure challenge.
- The campaign will work with people to ensure that greywater is managed at the most appropriate local level through the construction of household and

community soak pits.

- A Joint Advisory was also signed by 9 Ministries, including the Ministry of Jal Shakti, to take up greywater management at their level based on a convergence model with all those who are directly associated with program implementation. The theme for this year's World Water Day is "Groundwater: making the invisible visible."

★ Additional Information

- World Water Day is an annual event that is observed on March 22nd. It is an international day to raise awareness about the importance of freshwater and the sustainable management of freshwater resources.
- The day was first designated by the United Nations General Assembly in 1993, and each year, a specific theme is chosen to highlight a particular aspect of freshwater.

96. Answer: d

Explanation:

The correct answer is Option 4.

★ Key Points

- The border between India and China is indeed 3488 km long and touches several Indian states, including Himachal Pradesh, Arunachal Pradesh, Jammu and Kashmir, Sikkim, and Uttarakhand.
- Beijing is the capital city of China and Mandarin is the official language spoken in the country.

★ Additional Information

- China Myanmar signed an MoU to set up CMEC (China Myanmar Economic Corridor) in September 2018.
- It is one of the highlight projects of the Belt and Road initiative.
- CMEC provides China another access to Indian ocean.

- This CMEC will connect Yunnan with Mandalay in central Myanmar.
- It will also buildup infrastructure to connect Myanmar's economic centers.

97. Answer: c

Explanation:

The correct answer is Option 3.

★ Key Points

- **The Indian Official Secrets Act was passed in 1904 by Lord Curzon**, who was the **Viceroy of India** at the time. The act was passed to protect **sensitive government information** from being leaked to the public or foreign powers.
- The act had provisions that made it **illegal for anyone to disclose certain types of information without authorization**, and those who violated the act could be **punished with imprisonment and fines**. The act was amended several times over the years, including during the British colonial era and after India gained independence, to reflect changing political and security situations.
- The act has been criticized by some as being too broad and vague, which has led to concerns about the potential misuse of the act to suppress freedom of speech and the press. Despite this, **the act remains in force in India, and has been used to prosecute journalists and others who are accused of violating its provisions**.

★ Additional Information

- **The Treaty of Versailles was signed on June 28, 1919**, marking the end of **World War I**. The treaty was signed by the **Allied Powers and Germany**, and it imposed **heavy penalties on Germany, including financial reparations and territorial losses**.
 - The treaty also established the League of Nations, an international organization designed to promote peace and cooperation among nations. While the treaty officially ended the war, it also set the stage for future conflicts, as many Germans felt humiliated by the harsh terms of the agreement.

- Here is a list of the Viceroys of India:
 - Lord Canning (1858-1862)
 - Lord Elgin (1862-1863)
 - Sir John Lawrence (1864-1869)
 - Lord Mayo (1869-1872)
 - Lord Northbrook (1872-1876)
 - Lord Lytton (1876-1880)
 - Lord Ripon (1880-1884)
 - Lord Dufferin (1884-1888)
 - Lord Lansdowne (1888-1894)
 - Lord Elgin (1894-1899)
 - Lord Curzon (1899-1905)
 - Lord Minto (1905-1910)
 - Lord Hardinge (1910-1916)
 - Lord Chelmsford (1916-1921)
 - Lord Reading (1921-1926)
 - Lord Irwin (1926-1931)
 - Lord Willingdon (1931-1936)
 - Lord Linlithgow (1936-1943)
 - Lord Wavell (1943-1947)
 - Lord Mountbatten (1947)
- It should be noted that **Lord Mountbatten** served as the last Viceroy of India, as his term ended with the partition of **India and Pakistan in 1947**, after which India became independent.

98. Answer: d

Explanation:

The correct answer is Option 4.

★ Key Points

- The layer of soil you are referring to is called the **topsoil** or the **A horizon**.

- It is typically the **uppermost layer of soil** and is characterized by its high **organic matter content**, which gives it a dark color and rich texture.
- This layer is also **rich in nutrients** and is the most important layer for **plant growth**. The **topsoil** is often softer and more porous than deeper layers of soil, which allows for better water retention and root penetration.

★ Additional Information

- The **B-horizon** typically forms as a result of **weathering** and other **geological processes** that cause **minerals and nutrients** to leach down from the topsoil and accumulate in the **subsoil**.
 - The depth and **composition of the B-horizon** can vary depending on factors such as **climate, parent material, and topography**.
- **Bedrock is a type of solid rock** that forms the **Earth's crust**.
 - It is the layer of **solid rock that underlies soil, sediment, and other unconsolidated material on the Earth's surface**.
 - Bedrock is formed through the process of lithification, which involves the compaction and cementation of sedimentary materials, or the cooling and solidification of molten rock.
- The **C-horizon is a layer of soil** that is found beneath the **B-horizon** and is characterized by the accumulation of weathered parent material.
 - **This layer** is typically composed of partially **weathered rocks and minerals**, and it is often less developed than the **A and B horizons**.
 - The **C-horizon** can vary in thickness, depending on the nature of the parent material and the local environmental conditions.
 - It is important to note that the **C-horizon** is not a distinct layer in all soils and may be absent in some soil profiles.
 - The **C-horizon** is typically not as biologically active as the A and B horizons and has limited nutrient availability for plant growth.

99. Answer: d

Explanation:

The correct answer is Option 4.

★ Key Points

- **State Public Service Commissions (PSCs)** are government agencies responsible for the recruitment and selection of candidates for various civil service jobs within the state.
- Their main function is **to ensure that the recruitment and selection process is fair, transparent, and based on merit.**

★ Additional Information

- Some of the specific functions of the **State Public Service Commission** include:
 - **Recruitment of candidates:** The PSCs are responsible for conducting examinations and interviews to recruit candidates for various positions in the state government. These positions can include administrative, judicial, police, and other public service jobs.
 - **Conducting examinations:** The PSCs are responsible for conducting competitive examinations to select eligible candidates for various posts in the state government. These exams can be conducted for various levels, such as Class I, II, III, and IV.
 - **Setting eligibility criteria:** The PSCs set eligibility criteria for various posts based on educational qualifications, age, experience, and other relevant factors.
 - **Advising the government:** The PSCs advise the government on matters related to recruitment, selection, and promotion of civil servants.
 - **Promoting fairness and transparency:** The PSCs ensure that the recruitment process is conducted fairly and transparently, without any discrimination or favoritism.
 - **Reducing corruption:** The PSCs play an important role in reducing corruption in the recruitment and selection process by ensuring that it is based on merit and not on any other factors.
- In summary, the State Public Service Commission plays a crucial role in ensuring that the state government has a qualified and competent workforce. They ensure that the recruitment process is fair, transparent, and based on merit, thereby promoting good governance and reducing corruption.

100. Answer: a

Explanation:

The correct answer is Option 1.

★ Key Points

- The **Chota Nagpur Plateau**, also known as the **Ranchi Plateau**, is a region in **eastern India** that is known for its **rich mineral resources**.
- The region has vast deposits of minerals such as **coal, iron ore, manganese, bauxite, copper, limestone, and dolomite**.
- The belt covers areas of **Jharkhand, Chhattisgarh, Odisha, and West Bengal**. The mining of these minerals has been a major source of economic growth and development in the region.

★ Additional Information

- The **Chota Nagpur Plateau** is a **large plateau in eastern India** that covers parts of the states of **Jharkhand, Bihar, West Bengal, and Odisha**. It is a **rugged and hilly region** that covers an area of about **65,000 square kilometers**.
- The **plateau is composed of a complex of rocks, including granite, gneiss, schist, and sandstone, and is rich in minerals such as iron ore, coal, mica, and bauxite**. The region is also known for its forests and **wildlife, including tigers, elephants, and a variety of bird species**.
- The **Chota Nagpur Plateau is an important agricultural region and is known for its production of rice, wheat, and other crops**. It is also home to several large industrial centers, including the cities of **Jamshedpur and Ranchi, which are known for their steel, coal, and engineering industries**.
- The **plateau is an important part of India's history and culture, and is home to several indigenous tribal groups, including the Santhal, Oraon, and Munda people**. These groups have their own distinct **languages, customs, and traditions, and have played an important role in the region's history and development**.