

# Prepp

## 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



UPTET



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: 14 July 2022 Shift 1)

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. What will be the value of the following expression, if '×' and '-' are interchanged and '+' and '÷' are interchanged? (+1, -0.25)

$$200 \div 100 \times 300 \div 200 + 10 - 2 \times 40 = ?$$

- a. 200
- b. 2
- c. 40
- d. 0

2. Select the figure from the options that can replace the question mark (?) and complete the given pattern. (Rotation is now allowed) (+1, -0.25)





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

$$27 - 8 \times 4 - 3 \div 2 = 1$$

- a. 2 and 8
  - b. 2 and 3
  - c. 3 and 4
  - d. 8 and 4
- 
4. In a certain code language, 'heart black blue' is written as '8 # ab', 'grey are blue' is written as '# pr kt'. How will 'blue' be written in that language? (+1, -0.25)

- a. ab
- b. pr
- c. #
- d. 8

- 
5. 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)

TACKLE : TCCMLG :: JACKET : JCCMEV :: NEPTUNE : ?

- a. PEPTVOE
- b. PERTWNG
- c. NFGPVUP
- d. NGPVUPE

6. Select the option in which the numbers are related in the same way as are (+1, -0.25) the numbers in the given set.

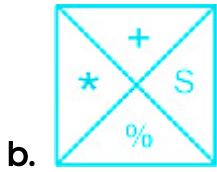
(7, 49, 343)

- a. (5, 25, 625)
- b. (11, 121, 1321)
- c. (13, 169, 2197)
- d. (3, 9, 29)

7. Select the figure from among the given options that can replace the question mark (?) in the following series.



- a.



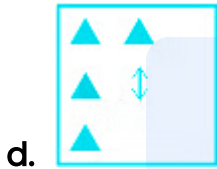
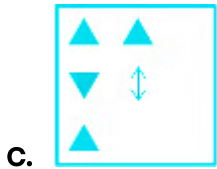
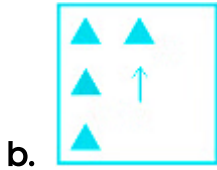
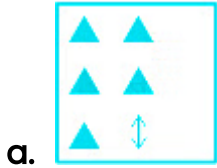
8. Select the option that is related to the fifth word in the same way as the second word is related to the first word and the fourth word is related to the third word. (+1, -0.25)

Virat Kohli : Cricket :: Saina Nehwal : Badminton :: Viswanathan Anand : ?

- a. Basketball
- b. Chess
- c. Tennis
- d. Football

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 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)

LOB : DQN :: HER : ?

- a. TGK
- b. TGJ
- c. JGU
- d. JGT

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

524, 533, 544, 557, ?

- a. 574
- b. 568
- c. 572
- d. 564

12. 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)



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



13. The marks of seven students A, B, C, D, E, F and G in a test were given as follows: A's score was exactly between E's and F's scores. B's score was more than only G's score. C's score was immediately more than B's score. F's score was more than E's score and F did not score the highest. (+1, -0.25)

Who scored the highest marks in the test?

- a. A
- b. G
- c. E
- d. D

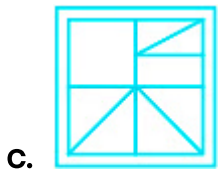
14. In a certain code language, 'GRSTB' is written as 'GYXWL', and 'HANDS' is written as "XISFM'. How will 'MNDET' be written in that language? (+1, -0.25)

- a. YJITS
- b. YJIRS
- c. JIISR
- d. YJISR

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



- a.



16. In a certain code language, 'GEFS' is written as 'HFER' and 'IBIS' is written as 'JCHR'. (+1, -0.25)

How will 'STIR' be written in that language?

- a. RSHQ
- b. TUJS
- c. RUHS
- d. TUHQ

17. 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. Some M are Q.

II. All V are Q.

**Conclusions:**

I. Some Q are M.

II. No M is V.

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

---

18. 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:**

All hexagons are pentagons.

All pentagons are octagons.

All octagons are decagons.

**Conclusions:**

- I. All decagons are hexagons.
- II. All hexagons are octagons.
- a. Both conclusions I and II follow
- b. Neither conclusion I nor II follows

- c. Only conclusion II follows
  - d. Only conclusion I follows
- 

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

28, 27, 31, 22, 38, 13, 49, ?

- a. 42
  - b. 2
  - c. 0
  - d. 22
- 

20. In a certain code language, 'ACQUIRE' is written as 'QCAUERI', 'ADDRESS' is written as 'DDARSSE', and 'ABILITY' is written as 'IBALYTI'. How will 'ICEBERG' be written in that language? (+1, -0.25)

- a. GREBECI
  - b. GREBICE
  - c. ECIBGRE
  - d. ICEBGRE
- 

21. Five friends N, M, O, P and Q are sitting in a column facing east (but not necessarily in the same order). O is sitting to the leftmost side. N is the immediate neighbour of M and Q. P is not sitting on any of the end seats. Who is the immediate neighbour of O? (+1, -0.25)

- a. M
- b. Q
- c. P
- d. N

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



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

AEI, EIO, IOU, ?

- a. UAE
- b. AEI
- c. OUA
- d. All

---

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

3 : 72 :: 21 : 504 :: 36 : ?

- a. 480
- b. 864
- c. 632
- d. 376



---

25. Seven boys B1, B2, B3, B4, B5, B6 and B7 are sitting around a circular table facing towards the centre (not necessarily in the same order). B1 is third to the left of B7. B4 is to immediate left of B1. B2 is second to the left of B6. B6 is not an immediate neighbour of B5. (+1, -0.25)

Who are the immediate neighbours of B3?

- a. B5 and B4
- b. B6 and B7
- c. B1 and B2

d. B4 and B6

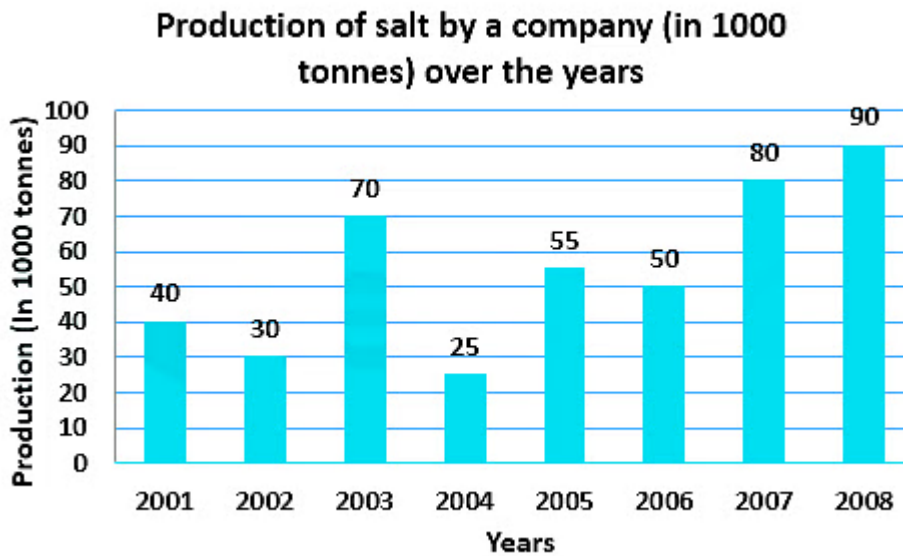
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## Numerical Aptitude

26. A shopkeeper sells an item at a loss of 8%. However, if he increases the selling price by Rs. 36, he could gain 12%. Find the cost price of the article (in Rs.). (+1, -0.25)
- a. 180
  - b. 270
  - c. 150
  - d. 360
- 
27. What is the average of the squares of the first five natural numbers? (+1, -0.25)
- a. 11.5
  - b. 10
  - c. 12.5
  - d. 11
- 
28. The given bar graph given below provides information about the quantity of salt produced by a company in 8 consecutive years. Study the information provided in the bar graph and answer the question that follows. (+1, -0.25)





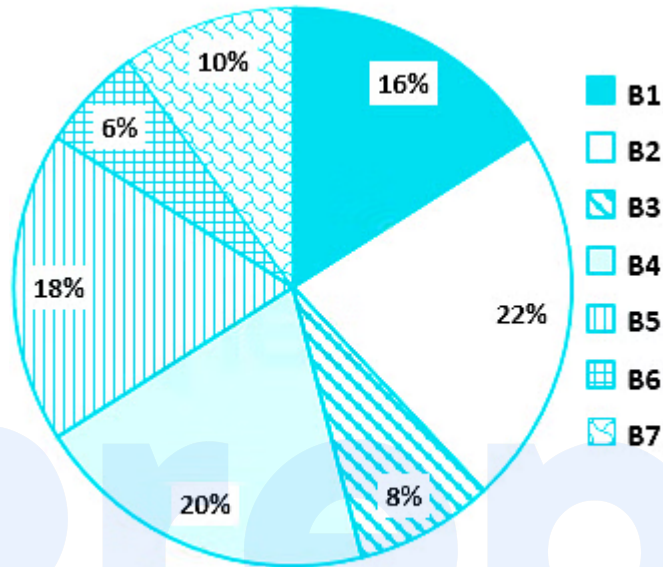
The average production of salt in 2001 and 2003 was exactly equal to the average production of salt in which of the following pairs of years?

- a. 2006 and 2007
- b. 2001 and 2005
- c. 2002 and 2007
- d. 2005 and 2006

29. The perimeter of a rectangle is 68 cm. If the area of the rectangle is 240 cm<sup>2</sup>, then what is the length of each of its diagonals? (+1, -0.25)

- a. 25 cm
- b. 27 cm
- c. 26 cm
- d. 28 cm

30. The pie chart given below shows the number of laptops sold of each of 7 different brands in a year as percentages of the total number of laptops sold of all these 7 brands taken together in that year. (+1, -0.25)



What is the difference between the measures of the central angles made by sector B2 and sector B5?

- a.  $16.66^\circ$
- b.  $21.6^\circ$
- c.  $14.4^\circ$
- d.  $7.2^\circ$
- 
31. Find a single discount equivalent to two successive discounts of 12% and 8%. (+1, -0.25)
- a. 18.8%

- b. 19.04%
- c. 19.4%
- d. 19.8%

---

32. The present ages of A and B are in the ratio 3 : 5. If A's present age is 33 years, then what will be B's age (in years) after 5 years? (+1, -0.25)

- a. 65
- b. 60
- c. 50
- d. 55

---

33. If  $A = 3 + 7 \times 2$ ,  $B = 12 \div 4 - 6$ , and  $C = 6 \times 5 + 2$ , then what is the value of  $A \times B + C$ ? (+1, -0.25)

- a. -22
- b. -19
- c. -25
- d. -26

---

34. Rohit scored at an average of 58 in his last five innings. Rohit scored 42, 56, 72 and 40 in the last four innings. How many runs did Rohit score in the first of these five innings? (+1, -0.25)

- a. 80
- b. 60

c. 90

d. 40

---

35. Sashi took a loan of Rs. 700 on simple interest for as many years as the rate of interest per annum. If he paid Rs. 343 as interest at the end of the loan period, what was the rate of interest? (+1, -0.25)

a. 6%

b. 4%

c. 10%

d. 7%

---

36. The cost prices of a pen and a notebook are Rs. 600 and Rs. 4,000, respectively. If the pen and the notebook are sold at losses of 20% and 32%, respectively, what will be the approximate percentage of total loss incurred through the two sales made? (+1, -0.25)

a. 21.40%

b. 26.08%

c. 30.43%

d. 28.42

---

37. Find the total cost of painting the outside of a closed cuboidal box, which is 7 m long, 5 m wide and 2 m high, at the rate of Rs. 2.4 per  $m^2$ . (+1, -0.25)

a. Rs. 296.30

- b. Rs. 263.40
- c. Rs. 283.20
- d. Rs. 251.20

---

38. Zee and Gee can complete a task together in 24 days. If the efficiencies of Zee and Gee are in the ratio 3 : 8, respectively, then in how many days can Gee complete the task alone? (+1, -0.25)

- a. 33 days
- b. 55 days
- c. 88 days
- d. 44 days

---

39. Ravi's monthly salary is Rs. 16,000. He spends 30% of his salary on rent, 20% of his salary on education. 60% of the remaining amount is invested in mutual funds. Find the amount invested in mutual funds in a month. (+1, -0.25)

- a. Rs. 5,000
- b. Rs. 4,800
- c. Rs. 4,200
- d. Rs. 4,500

---

40. The ratio of the LCM of two numbers to the sum of the same two numbers is 12 : 7. If their HCF is 4, what is the product of these two numbers? (+1, -0.25)

- a. 192

- b. 172
  - c. 196
  - d. 169
- 

41. The price of a cap is increased by 15%. If this results in a Rs. 27 increase in the price of the cap, then what is the increased price of the cap? (+1, -0.25)

- a. Rs. 170
  - b. Rs. 197
  - c. Rs. 207
  - d. Rs. 180
- 

42. Study the given table and answer the question that follows. (+1, -0.25)

The table shows the amount earned (in Rs. '000) by five different movies across all screens a movie was played.

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Movies	The amount collected per movie (in Rs. '000)
M1	450
M2	370
M3	510
M4	640
M5	830

All the movies were displayed on 50 screens each. What is the average amount earned per movie, per screen, all movies and all screens are taken together?

- a. Rs. 14,200
- b. Rs. 11,200
- c. Rs. 12,600
- d. Rs. 13,400

43. X alone can complete a piece of work in 16 days, while Y alone can complete the same work in 24 days. They work on alternate days starting with Y. In how many days will 50% of the total work be completed? (+1, -0.25)

- a. 8 days
  - b.  $\frac{29}{3}$  days
  - c.  $\frac{32}{3}$  days
  - d. 9 days
- 

44. The average of all the numbers between 14 and 61 which are divisible by 5 is: (+1, -0.25)
- a. 37.5
  - b. 38
  - c. 40
  - d. 44
- 

45. Five years from now, the ratio of the ages of A, B and C will be 3 : 5 : 2. The sum of the squares of their present ages is 525. What is the present age of B? (+1, -0.25)
- a. 10 years
  - b. 15 years
  - c. 25 years
  - d. 20 years
- 

46. What should come in place of the question mark (?) in the following mathematical statement? (+1, -0.25)



$$\sqrt{19 \times 650 \div 13 + 18.5 \times 4 \times 13} = ?$$

- a. 416
- b. 418
- c. 413
- d. 415

---

47. A person goes from P to Q at a speed of 20 km/h. Then he goes from Q to R at a speed of q km/h. Finally the person goes from R to S at a speed of r km/h. The distances from P to Q, Q to R and R to S are equal. If the average speed from P to R is  $\frac{280}{11}$  km/h, and the average speed from Q to S is  $\frac{112}{3}$  km/h, then what is the value of r ? (+1, -0.25)

- a. 40
- b. 37.5
- c. 42.5
- d. 45

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48. The length of each side of a cube is 4 cm. What is the volume of the cube? (+1, -0.25)

- a. 128 cm<sup>3</sup>
- b. 48 cm<sup>3</sup>
- c. 64 cm<sup>3</sup>
- d. 32 cm<sup>3</sup>

49. The amount received after 8 years on a certain sum of money invested at the rate of 18% simple interest per annum is Rs. 1,220. What was the initial sum invested? (+1, -0.25)

- a. Rs. 500
  - b. Rs. 480
  - c. Rs. 420
  - d. Rs. 450
- 

50. Piu and Titu start from the same place at the same time and walk in opposite directions. If Piu walks at 5 km/h and Titu walks at 2 km/h, after what time will they be 10.5 km apart? (+1, -0.25)

- a. 3.5 hours
- b. 1.5 hours
- c. 2.5 hours
- d. 2 hours

## General English

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

Bulky

- a. Airy
- b. Soft
- c. Massive
- d. Scanty

52. 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)

Hardly had he disappeared that her mother clomped down the steps, looking for him.

- a. Hardly did he disappeared that her mother
- b. Hardly had he disappear that her mother
- c. No improvement required
- d. Hardly had he disappeared when her mother

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

My friend is not \_\_\_\_\_ for this complicated assignment.

- a. worthy

- b. comfortable
  - c. suitable
  - d. entitled
- 

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

But if you \_\_\_\_\_ to spare before you do catch the bus, be sure to pop in.

- a. have a meeting
  - b. have a moment
  - c. have a nap
  - d. have a ride
- 

55. 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)

Michael nodded and begun writing at his pad.

- a. begun to write in
  - b. begin writing in
  - c. began writing on
  - d. No improvement required
-

56. Select the most appropriate option to substitute the underlined segment in the given sentence. If there is no need to substitute it, select 'No substitution required'. (+1, -0.25)

Just try and recall the poor people you saw on the streets, on local trains, and in slums on our way back.

- a. have been seen on the
- b. seen on the
- c. have seeing on the
- d. No substitution required

57. 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)

An unidentified man on an bike dropped for the box outside the building.

- a. a bike dropped off
- b. a bike dropping for
- c. a bike drop for
- d. No improvement required

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

Maestro

- a. Genius
- b. Senile

- c. Slender
- d. Novice

---

59. 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)

My mother exclaimed / at how fast / the days had pass.

- a. at how fast
- b. No error
- c. My mother exclaimed
- d. the days had pass

---

60. Select the most appropriate meaning of the given idiom. (+1, -0.25)

To raise a dust

- a. To meet one's defeat
- b. To be satisfied with what you have achieved
- c. To be secretly or inwardly amused
- d. To cause disruption or confusion

---

61. 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)

She had no sooner taken a few steps forward that she suddenly recoiled.

- a. No sooner had she taken a few steps forward than
  - b. She did no sooner taken a few steps forward than
  - c. No improvement required
  - d. She did no sooner took a few steps forward than
- 

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

One day, the queen was painting when a messenger entered \_\_\_\_\_ to convey the king's arrival.

- a. comparably
  - b. relatively
  - c. enjoyably
  - d. breathlessly
- 

Your Personal Exams Guide

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63. Parts of the following sentence have been given as options. 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)

Hundreds of migrants work in private firms in Erode.

- a. firms in Erode
- b. No error
- c. Hundreds of migrants
- d. work in private

64. 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)

Can all us sleep in the same room, Mother?

- a. May all we
- b. Can we all
- c. Should us all
- d. No improvement required

65. Parts of the given sentence have been given as options. 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)

Neither she not I am going to take part in the debate competition.

- a. am going to take part
- b. No error
- c. Neither she not I
- d. in the debate competition

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

- a. Hieght
- b. Beleive
- c. Fiery



d. Foriegn

---

67. Select the INCORRECTLY spelt word.

(+1, -0.25)

- a. Strangled
- b. Dominion
- c. Solitary
- d. Persecution

---

68. Select the most appropriate option to fill in the blank.

(+1, -0.25)

You really need to exercise daily, if you want to live a long and \_\_\_\_\_ life.

- a. marginal
- b. shrieking
- c. wealthy
- d. healthy

---

69. Select the most appropriate meaning of the underlined idiom in the given sentence.

(+1, -0.25)

That lady must have an axe to grind that's why she is not reporting your crime.

- a. To have a tedious job
- b. To have a crucial information

- c. To delay one's actions
- d. To have an ulterior motive

---

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

Unfeigned

- a. Sincere
- b. Genuine
- c. Pretended
- d. Expressive

---

71. Direction: 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)

When he died on 27 November 1953, Gladstone O'Neill was (1) \_\_\_\_\_ recognized as one of the major dramatists of the modern world. Four times a Pulitzer Prize-winner, he had also been (2) \_\_\_\_\_ the 1936 Nobel Prize for Literature. His plays have been translated into most major languages and read by more people than those of (3) \_\_\_\_\_ other playwrights except W Shakespeare and maybe G Bernard Shaw. O'Neill was a puzzle to his friends - a genuinely shy, brooding, complicated man with whom (4) \_\_\_\_\_ alternated with touching kindness. He was both, naive and worldly. One biographer found him "sentimental one instant, hard as nails the next." His widow, after 26 years with O'Neill, said, "To (5) \_\_\_\_\_ his work you must understand the man, for the work and the man are one."

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

- a. manically
- b. universally
- c. specifically
- d. casually

72. Direction: 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)

When he died on 27 November 1953, Gladstone O'Neill was (1) \_\_\_\_\_ recognized as one of the major dramatists of the modern world. Four times a Pulitzer Prize-winner, he had also been (2) \_\_\_\_\_ the 1936 Nobel Prize for Literature. His plays have been translated into most major languages and read by more people than those of (3) \_\_\_\_\_ other playwrights except W Shakespeare and maybe G Bernard Shaw. O'Neill was a puzzle to his friends - a genuinely shy, brooding, complicated man with whom (4) \_\_\_\_\_ alternated with touching kindness. He was both, naive and worldly. One biographer found him "sentimental one instant, hard as nails the next." His widow, after 26 years with O'Neill, said, "To (5) \_\_\_\_\_ his work you must understand the man, for the work and the man are one."

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

- a. rewarded
- b. awarded
- c. unaided
- d. crowded

73. Direction: 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)

When he died on 27 November 1953, Gladstone O'Neill was (1) \_\_\_\_\_ recognized as one of the major dramatists of the modern world. Four times a Pulitzer Prize-winner, he had also been (2) \_\_\_\_\_ the 1936 Nobel Prize for Literature. His plays have been translated into most major languages and read by more people than those of (3) \_\_\_\_\_ other playwrights except W Shakespeare and maybe G Bernard Shaw. O'Neill was a puzzle to his friends - a genuinely shy, brooding, complicated man with whom (4) \_\_\_\_\_ alternated with touching kindness. He was both, naive and worldly. One biographer found him "sentimental one instant, hard as nails the next." His widow, after 26 years with O'Neill, said, "To (5) \_\_\_\_\_ his work you must understand the man, for the work and the man are one."

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

- a. none
- b. few
- c. any
- d. some

74. Direction: 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)

When he died on 27 November 1953, Gladstone O'Neill was (1) \_\_\_\_\_ recognized as one of the major dramatists of the modern world. Four times a Pulitzer Prize-winner, he had also been (2) \_\_\_\_\_ the 1936 Nobel Prize for Literature. His plays have been translated into most major

languages and read by more people than those of (3) \_\_\_\_\_ other playwrights except W Shakespeare and maybe G Bernard Shaw. O'Neill was a puzzle to his friends - a genuinely shy, brooding, complicated man with whom (4) \_\_\_\_\_ alternated with touching kindness. He was both, naive and worldly. One biographer found him "sentimental one instant, hard as nails the next." His widow, after 26 years with O'Neill, said, "To (5) \_\_\_\_\_ his work you must understand the man, for the work and the man are one."

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

- a. failure
- b. success
- c. benefit
- d. cruelty

75. Direction: 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)

When he died on 27 November 1953, Gladstone O'Neill was (1) \_\_\_\_\_ recognized as one of the major dramatists of the modern world. Four times a Pulitzer Prize-winner, he had also been (2) \_\_\_\_\_ the 1936 Nobel Prize for Literature. His plays have been translated into most major languages and read by more people than those of (3) \_\_\_\_\_ other playwrights except W Shakespeare and maybe G Bernard Shaw. O'Neill was a puzzle to his friends - a genuinely shy, brooding, complicated man with whom (4) \_\_\_\_\_ alternated with touching kindness. He was both, naive and worldly. One biographer found him "sentimental one instant, hard as nails the next." His widow, after 26 years with O'Neill, said, "To (5) \_\_\_\_\_ his work you must understand the man, for the work and the man are one."

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

- a. prepare
- b. produce
- c. understand
- d. demonstrate

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## General Awareness

76. Which part of the Constitution of India talks about the Directive Principles of State Policy? **(+1, -0.25)**
- a. Part IV
  - b. Part V
  - c. Part III
  - d. Part II
- 
77. Who among the following was a famous Indian playback singer and an actor too? **(+1, -0.25)**
- a. Kashinath Ghanekar
  - b. Kishore Kumar
  - c. Pranab Mukherjee
  - d. Sunil Chhetri
- 
78. The Purple Revolution, which was launched in Jammu and Kashmir, is also known as \_\_\_\_\_ **(+1, -0.25)**
- a. Lavender Revolution
  - b. Indigo Revolution
  - c. Orchids Revolution
  - d. Lilac Revolution

79. Who among the following founded Brahma Samaj in Calcutta (Kolkata)? (+1, -0.25)

- a. Swami Vivekanand
  - b. Swami Dayanand Saraswati
  - c. Ishwar Chandra Vidyasagar
  - d. Raja Ram Mohan Roy
- 

80. Which of the following is NOT a cause of rural poverty in India? (+1, -0.25)

- a. Migration from rural areas
  - b. Lack of alternate employment opportunities other than agriculture
  - c. Illiteracy
  - d. Lack of capital
- 

81. Who is the Chairman of Financial Stability and Development Council (FSDC) of India? (+1, -0.25)

- a. Finance Minister
  - b. Human Resource Development Minister
  - c. Home Minister
  - d. Skill Development Minister
- 

82. The Great Indian Novel is written by the famous politician \_\_\_\_\_ . (+1, -0.25)



- a. Neither I nor II
  - b. Derek O'Brien
  - c. AK Antony
  - d. Shashi Tharoor
- 

83. Which of the given statements related to the temples of India is correct? (+1, -0.25)

- I. The Nagara style of architecture is also known as the North Indian style
- II. The Dravidian style of architecture is also known as the South Indian style.

- a. Neither I nor II
  - b. Both I and II
  - c. Only II
  - d. Only I
- 

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84. The uplifted blocks of block mountains are called\_\_\_\_\_ (+1, -0.25)

- a. horsts
  - b. grabens
  - c. slopes
  - d. cones
- 

85. Dantidurga belonged to which dynasty of India? (+1, -0.25)

- a. Chalukya
  - b. Chola
  - c. Rashtrakuta
  - d. Chera
- 

86. Bagurumba is a folk dance of which Indian state? (+1, -0.25)

- a. Haryana
  - b. Karnataka
  - c. Assam
  - d. Goa
- 

87. The number of persons per unit area gives the measurement of \_\_\_\_\_. (+1, -0.25)

- a. population density
  - b. population sex ratio
  - c. population movements
  - d. population growth rate
- 

88. 'Ambubachi' festival of Assam is celebrated in the month of \_\_\_\_\_ every year. (+1, -0.25)

- a. March
- b. December

- c. January
  - d. June
- 

89. Harshavardhana (r. 606-647 CE) was a ruler of \_\_\_\_\_ dynasty. (+1, -0.25)

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

90. All India Muslim League was formed in \_\_\_\_\_. (+1, -0.25)

- a. 1906
  - b. 1910
  - c. 1905
  - d. 1908
- 

91. All the changes in the weather are driven by the \_\_\_\_\_. (+1, -0.25)

- a. moon
  - b. sun
  - c. stars
  - d. Jovian planets
-

92. The HVJ gas pipeline from Hazira in Gujarat to Jagdishpur in Uttar Pradesh passes through which state? (+1, -0.25)
- a. Jharkhand
  - b. Madhya Pradesh
  - c. Himachal Pradesh
  - d. Uttarakhand
- 

93. Tapeworm belongs to which group of the animal kingdom? (+1, -0.25)
- a. Coelenterata
  - b. Porifera
  - c. Annelida
  - d. Platyhelminthes
- 

94. Which of the following is an Indian game of snake boat race? (+1, -0.25)
- a. Kho-Kho
  - b. Vallam kali
  - c. Mallakhamb
  - d. Field hockey
- 

95. The judiciary has the power to strike down particular laws passed by the Parliament if it believes that these are a violation of the basic structure of (+1, -0.25)

the Constitution. This is called \_\_\_\_\_.

- a. Judicial review
  - b. dispute resolution
  - c. judicial activism
  - d. public interest litigation
- 

96. Who among the following won a silver medal in the Summer Olympics 2020 (played in 2021)? (+1, -0.25)

- a. Ravi Kumar Dahiya
  - b. Bajrang Punia
  - c. Lovlina Borgohain
  - d. PV Sindhu
- 

97. Who became the new Chief Minister of Punjab in March 2022? (+1, -0.25)

- a. Navjot Singh Sidhu
  - b. Amarinder Singh
  - c. Bhagwant Mann
  - d. Arvind Kejriwal
- 

98. Which of the following gases shields the surface of earth from ultraviolet (UV) radiation from the sun? (+1, -0.25)

- a. Carbon monoxide
  - b. Ozone
  - c. Oxygen
  - d. Carbon dioxide
- 

99. Which of the following is an example of contact force? (+1, -0.25)

- a. Electrostatic force
  - b. Muscular force
  - c. Gravitational force
  - d. Magnetic force
- 

100. Kalamandalam Kalyanikutty Amma is known for which classical dance form? (+1, -0.25)

- a. Manipuri
- b. Kuchipudi
- c. Odissi
- d. Mohiniyattam

## Answers

### 1. Answer: d

#### Explanation:

##### Explanation:

We interchange '×' and '-' and interchange '+' and '÷' then solve the equation using BODMAS rule:

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

$$200 + 100 - 300 + \underline{200 \div 10} \times 2 - 40 = ?$$

$$200 + 100 - 300 + \underline{20} \times 2 - 40 = ?$$

$$\underline{200 + 100} - 300 + \underline{40} - 40 = ?$$

$$\underline{340 - 300 - 40} = ?$$

$$= 0$$

Hence the value of expression is 0.

### 2. Answer: a

#### Explanation:

In the given figure, all the sides are symmetric to each other and we have to find the portion that completes the symmetry and each portion is unique, so we compare each option:

Option 1)



It completes the symmetry.  
Option 2)



It is same as given portion.  
Option 3)



It is same as given portion.  
Option 4)



It does not follow the symmetry.

Hence the correct answer is option 1.

---

### 3. Answer: c

#### Explanation:

We apply each option on the given equation and solve it using BODMAS rule:



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

Option 1) 2 and 8  
 $27 - 2 \times 4 - \underline{3 \div 8} = 1$   
 $27 - \underline{2 \times 4} - 0.3 = 1$   
 $\underline{27 - 8 - 0.3} = 1$   
 $18.7 \neq 1$

Option 2) 2 and 3  
 $27 - 8 \times 4 - \underline{2 \div 3} = 1$   
 $27 - \underline{8 \times 4} - 0.6 = 1$   
 $\underline{27 - 32 - 0.6} = 1$   
 $-5.6 \neq 1$

Option 3) 3 and 4  
 $27 - 8 \times 3 - \underline{4 \div 2} = 1$   
 $27 - \underline{8 \times 3} - 2 = 1$   
 $\underline{27 - 24 - 2} = 1$   
 $1 = 1$

Option 4) 8 and 4  
 $27 - 4 \times 8 - \underline{3 \div 2} = 1$   
 $27 - \underline{4 \times 8} - 1.5 = 1$   
 $\underline{27 - 32 - 1.5} = 1$   
 $-6.5 \neq 1$

Hence the correct answer is option 3.

4. Answer: c

**Explanation:**

We compare the given phrase and their codes:

heart black **blue** → 8 **#** ab  
 grey are **bleu** → **#** pr kt

We get that, in both the combinations 'blue' is coded as '#'.  
 Hence the correct answer is option 3.

**5. Answer: d**

**Explanation:**

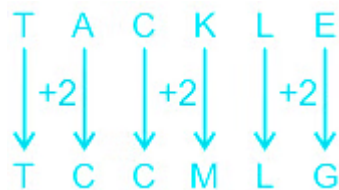
Explanation:

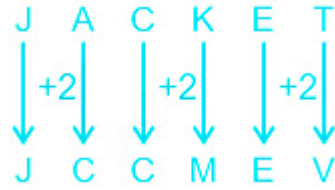
According to the English alphabets and their positional values:

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

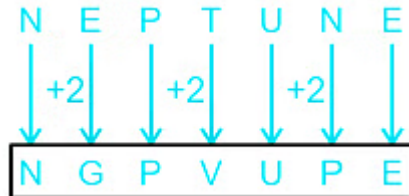
The pattern followed in the given series is:

The alphabets at even places are increased to 2 positional values.





Similarly,



Hence the correct answer is option 4.

6. Answer: c

Explanation:

Explanation:

The pattern followed in the given set is:

**First term × Second term = Third term**

Given set: (7, 49, 343)

7 × 49 = 343

343 = 343

Now we apply the pattern to the given options:

1) (5, 25, 625)

5 × 25 = 625

125 ≠ 625

2) (11, 121, 1321)

11 × 121 = 1321

1331 ≠ 1321

3) (13, 169, 2197)

$$13 \times 169 = 2197$$

$$2197 = 2197$$

4) (3, 9, 29)

$$3 \times 9 = 29$$

$$27 \neq 29$$

Hence the correct answer is option 3.

## 7. Answer: d

### Explanation:

Explanation:

The pattern followed in the given series is:

**The characters shift in clockwise direction.**

**The character that appears in the top quadrant is replaced with a new character in the next step.**

Next step will be:

**The top quadrant will have a new character.**

**The left quadrant will have star (clockwise shifting)**

The bottom quadrant will have percentage (clockwise shifting)

The right quadrant will have alphabet 'S' (clockwise shifting)



Now we consider the given options:

Option 1) Position of 'S' and star is interchanged.

Option 2) No new character is introduced.

Option 3) The positions of 'S' and 'F' is interchanged.

Option 4) The pattern is correct.

Hence the correct answer is option 4.

---

**8. Answer: b**

**Explanation:**

The pattern followed in the given series is:

**Virat Kohli : Cricket** – Famous player of the sport : Sport

**Saina Nehwal : Badminton** – Famous player of the sport : Sport

Similarly,

**Viswanathan Anand : ?**– ? will be the sport played by the player.

We consider the given options:

- 1) Basketball: Viswanathan Anand does not play this sport.
- 2) Chess: Viswanathan Anand is a famous Chess champion.
- 3) Tennis: Viswanathan Anand does not play this sport.
- 4) Football: Viswanathan Anand does not play this sport.

Hence the correct answer is option 2.

---

**9. Answer: d**

**Explanation:**

Explanation:

The pattern followed in the given series is:

**One solid triangle pointing upwards is added in each step, before the two headed arrow.**

Next step will be:

**4 solid triangles pointing upwards before the two headed arrow.**

Now we consider the given options:

Option 1) There are five solid triangles.

Option 2) The arrow is not two-headed.

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- Option 3) One triangle is pointing downwards.
- Option 4) The pattern is correct.

Hence the correct answer is option 4.

10. Answer: b

**Explanation:**

Explanation:

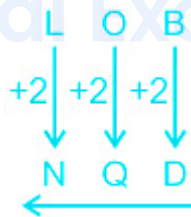
According to the English alphabets and their positional values:

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

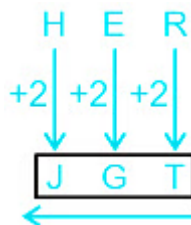
The pattern followed in the given series is:

The alphabets are increased to 2 positional values and the code is arranged backwards.

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Similarly,



Hence the correct answer is option 2.

11. Answer: c

**Explanation:**

Explanation:

The pattern followed in the given series is:

The difference between the terms is increasing odd numbers.



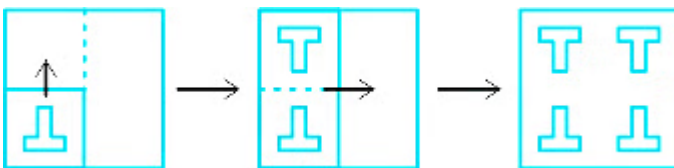
Hence the correct answer is option 3.

12. Answer: a

**Explanation:**

Explanation:

We unfold the paper step by step:



Now we compare the given options:

Option 1) The pattern matches completely.

Option 2) The pattern is asymmetrical.

Option 3) The pattern is incomplete.

Option 4) The pattern is wrong.

Hence the correct answer is option 1.

---

**13. Answer: d**

**Explanation:**

Explanation:

From the given information:

Step 1: F's score was more than E's score and F did not score the highest.

$$F > E$$

Step 2: A's score was exactly between E's and F's scores.

$$F > A > E$$

Step 3: C's score was immediately more than B's score.

$$C > B$$

Step 4: B's score was more than only G's score.

$$F > A > E > C > B > G$$

Now we know that F did not score the highest and only D is left without a position therefore,

$$D > F > A > E > C > B > G$$

So D is the one with highest score.

Hence the correct answer is option 4.

---

**14. Answer: d**

**Explanation:**

Explanation:

According to the English alphabets and their positional values:

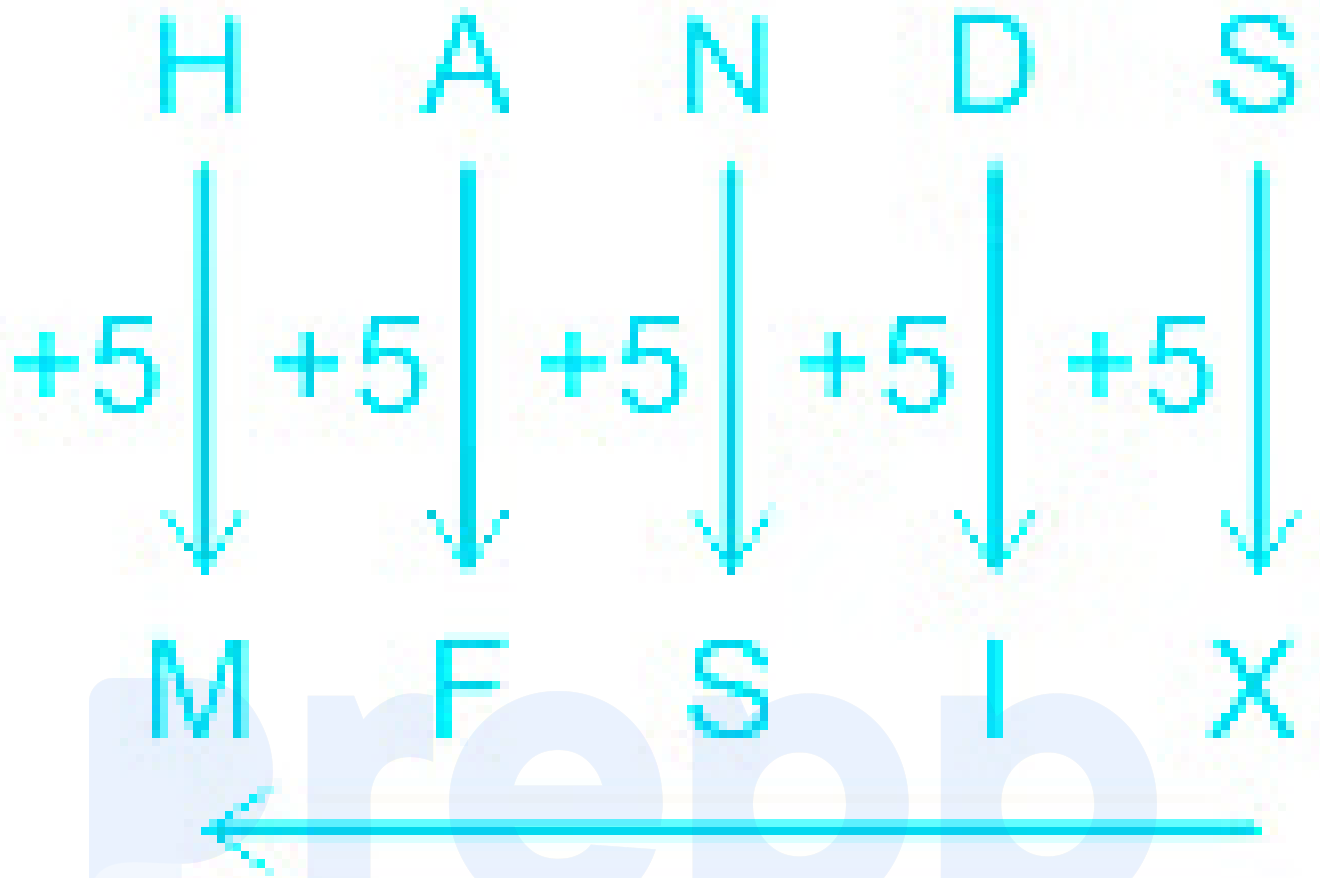


Alphabets	A	B	C	D	E	F	G	H	I	J	K	L	M
Positional value	1	2	3	4	5	6	7	8	9	10	11	12	13
Positional value	26	25	24	23	22	21	20	19	18	17	16	15	14
Alphabets	Z	Y	X	W	V	U	T	S	R	Q	P	O	N

The pattern followed in the given series is:

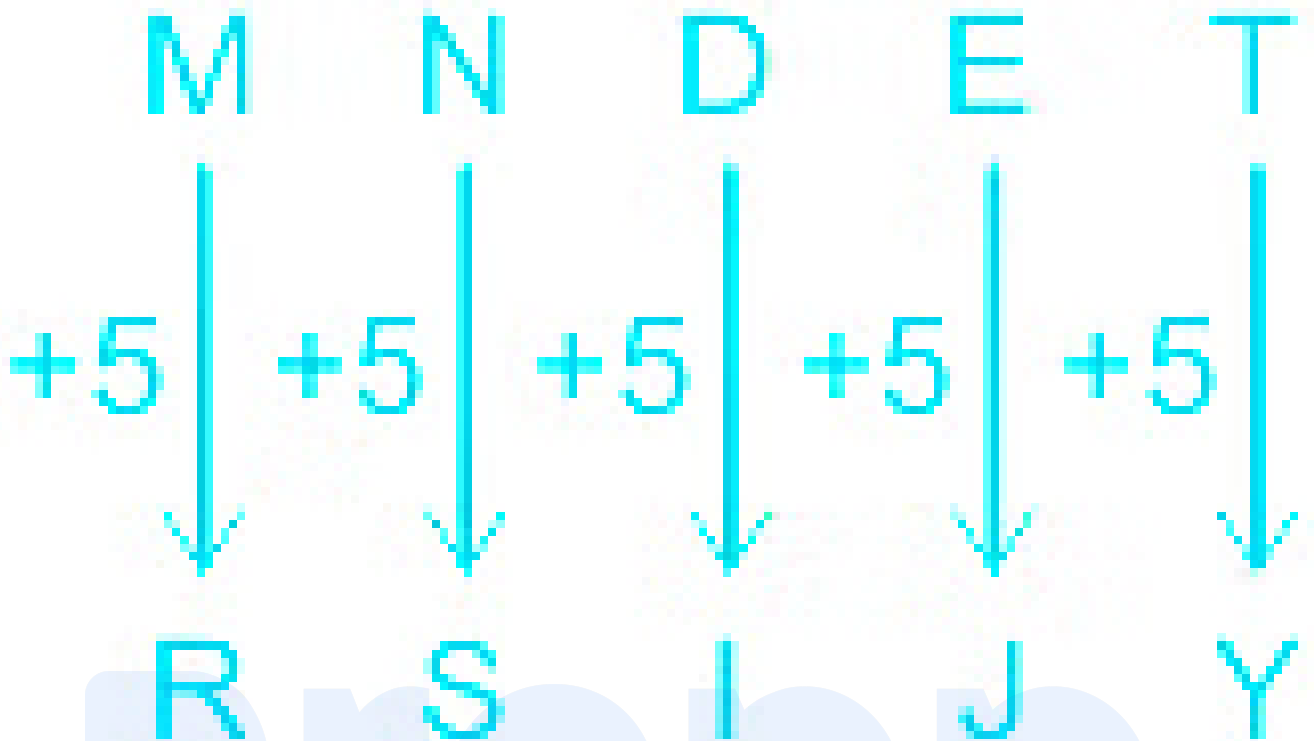
The alphabets are increased to 5 positional values and the code is arranged backwards.





Similarly,

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Hence the correct answer is option 4.

15. Answer: d

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**Explanation:**

Explanation:

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

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16. Answer: d

### Explanation:

Explanation:

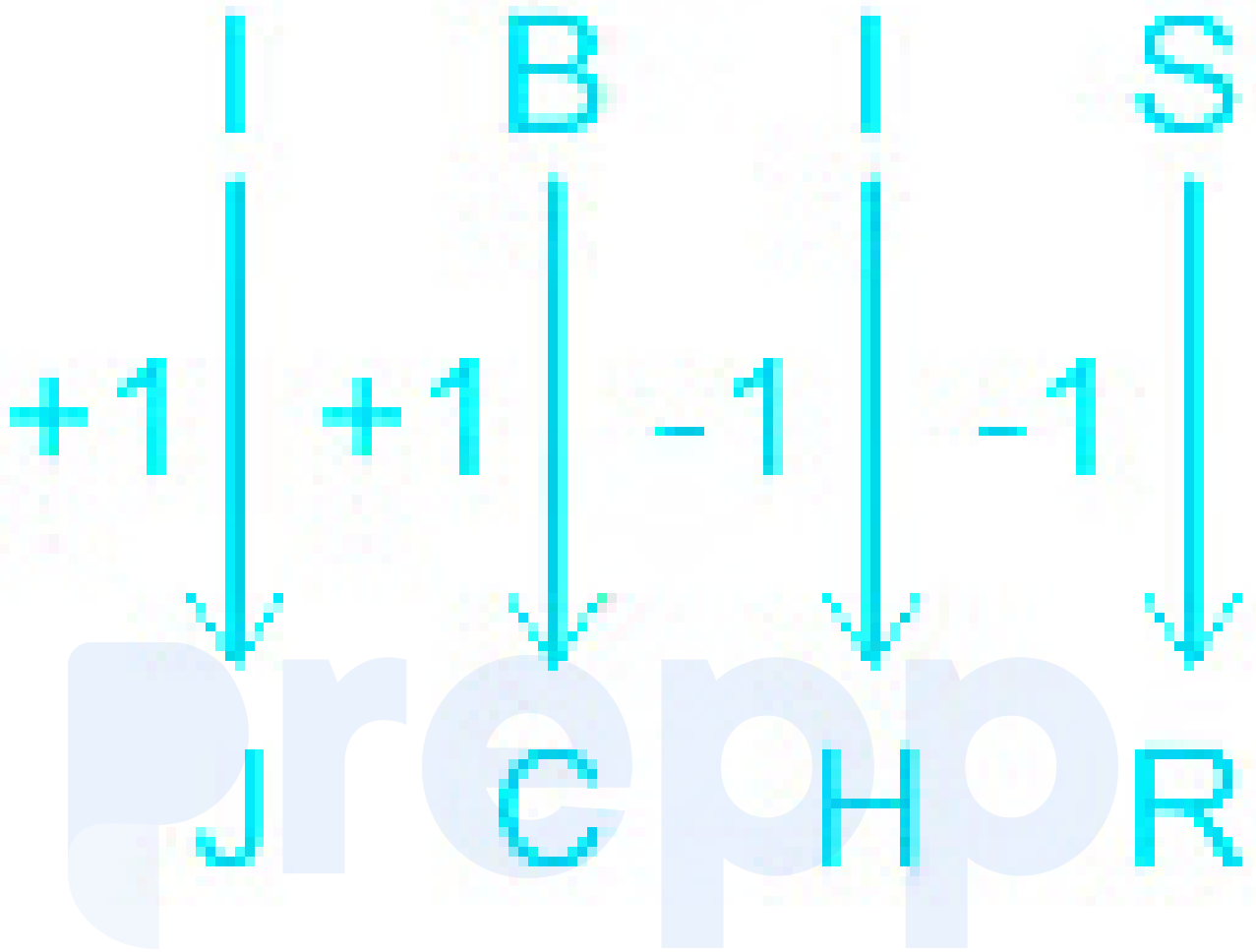
According to the English alphabets and their positional values:

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 pattern followed in the given series is:

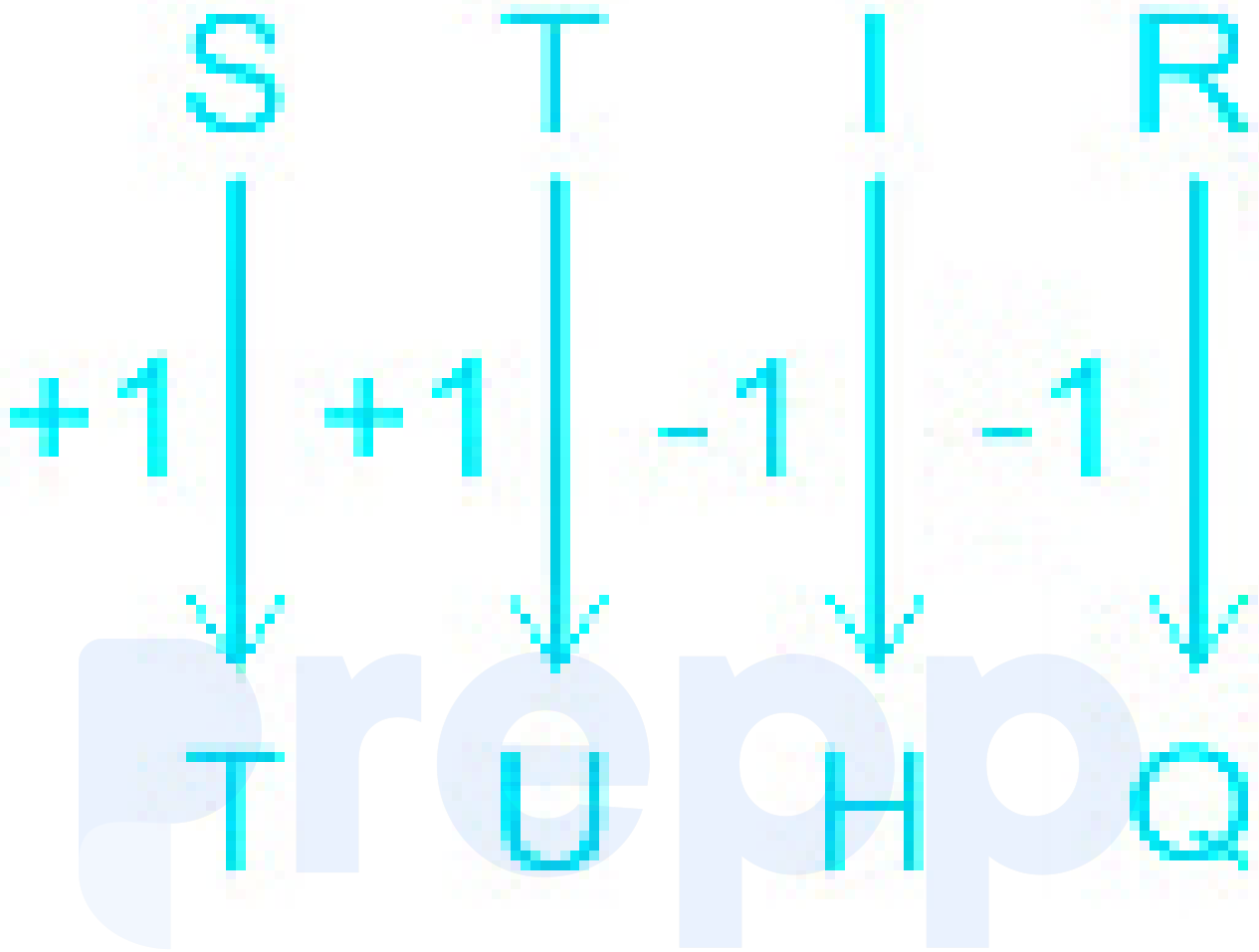
First two alphabets are increased to 1 positional value and last two alphabets are decreased to 1 positional value.





Similarly,

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Hence the correct answer is option 4.

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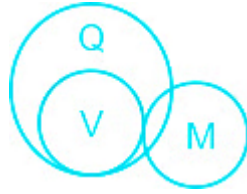
17. Answer: b

**Explanation:**

Explanation:

From the given statements, the Venn diagram will be:

- I. Some M are Q.
- II. All V are Q.



Now we consider the given conclusions:

**I. Some Q are M** → Follow → Since 'some M are Q' which can also be said that some Q are M and same can be seen in the Venn diagram and therefore the conclusion follows.

**II. No M is V** → Does not follow → We have 'all V are Q' and 'some M are Q' but we don't have any information about the relation between M and V and there is a possibility that some M are V and we cannot neglect it so the conclusion does not follow.  
So only conclusion I follows.

Hence the correct answer is option 2.

18. Answer: c

**Explanation:**

Explanation:

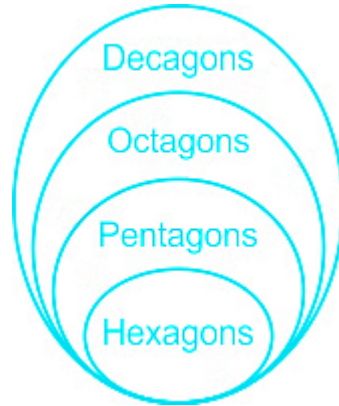
From the given statements, the Venn diagram will be:

All hexagons are pentagons.

All pentagons are octagons.

All octagons are decagons.





Now we consider the given conclusions:

I. **All decagons are hexagons** → Does not follow → From the Venn diagram, we can see that some decagons are octagons and pentagons and hexagons so it will be wrong to conclude that all decagons are hexagons and thus the conclusion does not follow.

II. **All hexagons are octagons** → Follow → Since 'all hexagons are pentagons' and 'all pentagons are octagons' then there is an indirect relation that suggests that all hexagons are octagons and same can be seen in the diagram and therefore the conclusion follows.

So only conclusion II follows.

Hence the correct answer is option 3.

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19. Answer: c

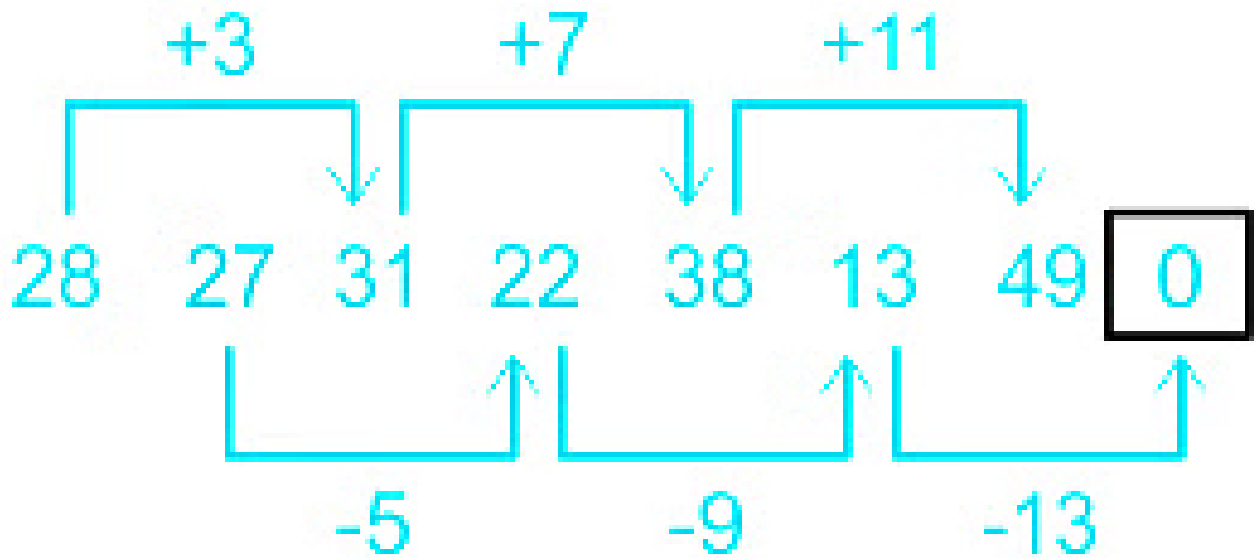
**Explanation:**

Explanation:

The pattern followed in the given series is:

The difference between the terms at odd places increases with increasing odd numbers.

The difference between the terms at even places decreases with increasing odd numbers.



Hence the correct answer is option 3.

20. Answer: c

Explanation:

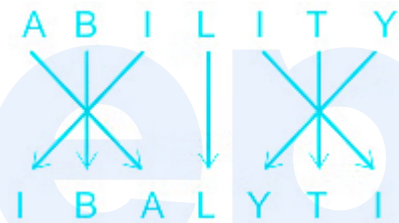
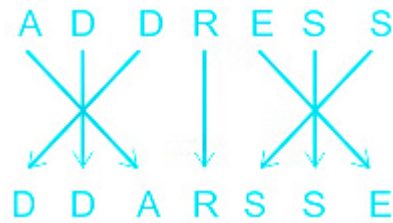
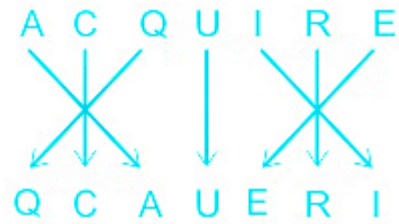
Explanation:

According to the English Alphabet and their positional values:

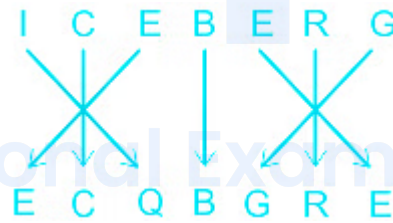
Alphabets	A	B	C	D	E	F	G	H	I	J	K	L	M
Positional value	1	2	3	4	5	6	7	8	9	10	11	12	13
Positional value	26	25	24	23	22	21	20	19	18	17	16	15	14
Alphabets	Z	Y	X	W	V	U	T	S	R	Q	P	O	N

The pattern followed in the given series is:

First and third alphabets are interchanged & fifth and seventh alphabets are interchanged.



Similarly,



Hence the correct answer is option 3.

21. Answer: c

**Explanation:**

Explanation:

From the given information:

Step 1: O is sitting to the leftmost side.



Step 2: N is the immediate neighbour of M and Q.



We have 4 spots and M,N,Q are seated together so we have to place them such that P can be seated with given conditions.

Step 3: P is not sitting on any of the end seats.



From the arrangement we can see that **P is the neighbor of O.**

Hence the correct answer is option 3.

22. Answer: a

Explanation:

Explanation:

The pattern given is symmetrical and the ? will be replaced by an mirror image of the upper portion to follow the symmetry so we compare the given options:

Option 1)



The pattern matches the symmetry.

Option 2)



The pattern does not fit in the symmetry.

Option 3)



The pattern does not fit in the symmetry.

Option 4)



The pattern does not fit in the symmetry.

Hence the correct answer is option 1.

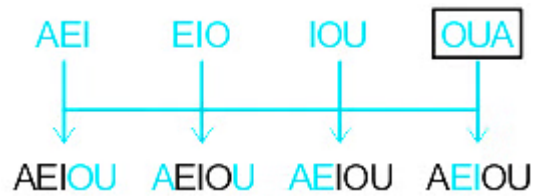
23. Answer: c

Explanation:

Explanation:

The pattern followed in the given series is:

The terms are vowels in the order A,E,I,O,U and in each step one place is shifted.



Hence the correct answer is option 3.

24. Answer: b

Explanation:

Explanation:

The pattern followed in the given series is:

**First term × 24 = Second term**

Now we apply the pattern:

$$3 : 72 :: 21 : 504 :: 36 : ?$$

$$3 \times 24 = 72$$

$$72 = 72$$

$$3 : 72 :: 21 : 504 :: 36 : ?$$

$$21 \times 24 = 504$$

$$504 = 504$$

$$3 : 72 :: 21 : 504 :: 36 : ?$$

$$36 \times 24 = ?$$

= 864

Hence the correct answer is option 2.

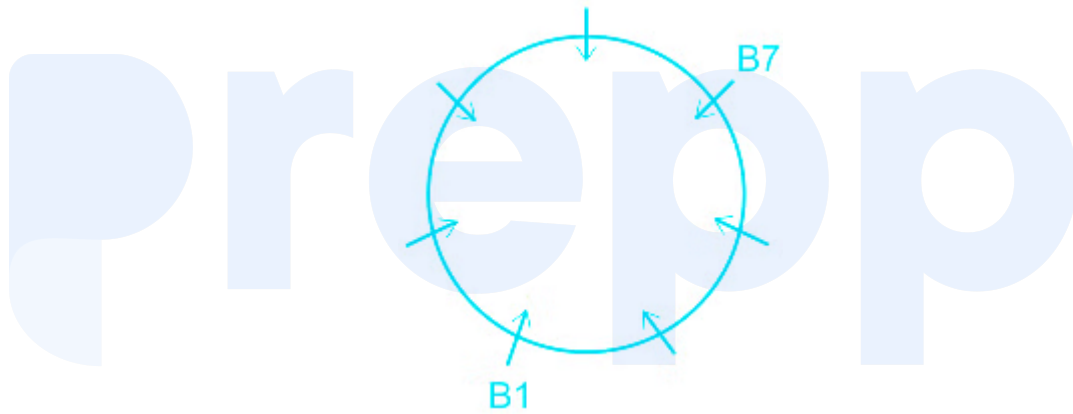
25. Answer: d

Explanation:

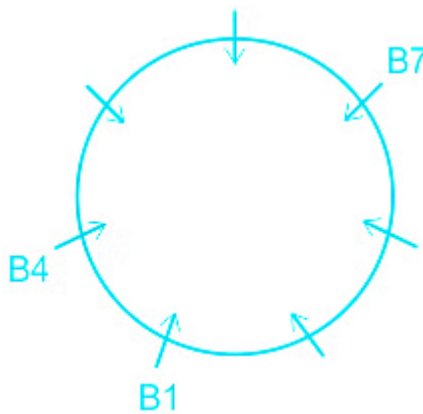
Explanation:

From the given information:

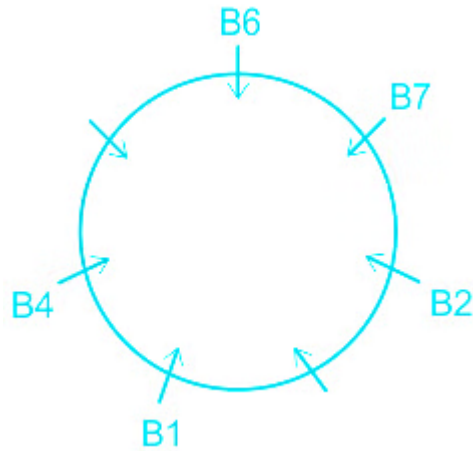
Step 1: B1 is third to the left of B7.



Step 2: B4 is to immediate left of B1.

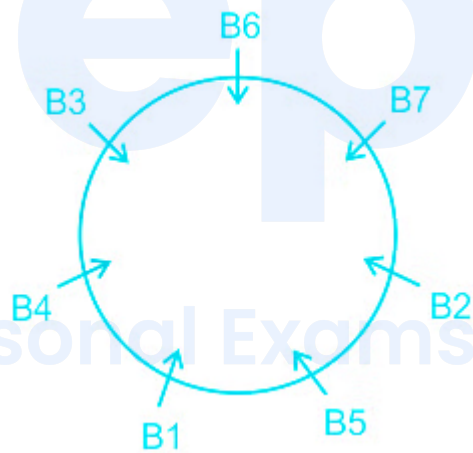


Step 3: B2 is second to the left of B6.



We have to place B6 and B2 with one space in between and it can be only possible with B7 in between because in other cases we will not be able to fulfill the given conditions.

Step 4: B6 is not an immediate neighbour of B5.



We place B5 near B1 because we cannot place it with B6 and then we place B3 at the only spot left.

So from the arrangement we can see that, **B4 and B6 are immediate neighbors of B3.**

Hence the correct answer is option 4.

26. Answer: a



### Explanation:

Given:

Loss percentage = 8%

Increase in SP = Rs 36

Gain percentage = 12%

Concept Used:

$$(100 + \text{Gain}\%) - (100 - \text{Loss}\%) = \text{Increase}$$

Calculation:

Let the cost price of an item be Rs  $x$ .

According to the question,

$$\Rightarrow (100 + 12)x - (100 - 8)x = 36 \times 100$$

$$\Rightarrow 112x - 92x = 3600$$

$$\Rightarrow x = 3600 \div 20 = 180$$

Therefore, the cost price of an item be Rs 180.

---

### 27. Answer: d

### Explanation:

Given:

First five natural numbers

Concept Used:

Sum of the squares of  $n$  natural numbers

$$= [n (n + 1) (2n + 1)]/6$$

**Calculation:**

Sum of squares of first five natural numbers

$$= \frac{5(5+1)(2 \times 5+1)}{6}$$

$$\text{Sum of squares of first five natural numbers} = \frac{5 \times 6 \times 11}{6} = 55$$

Average of squares of the first five natural numbers

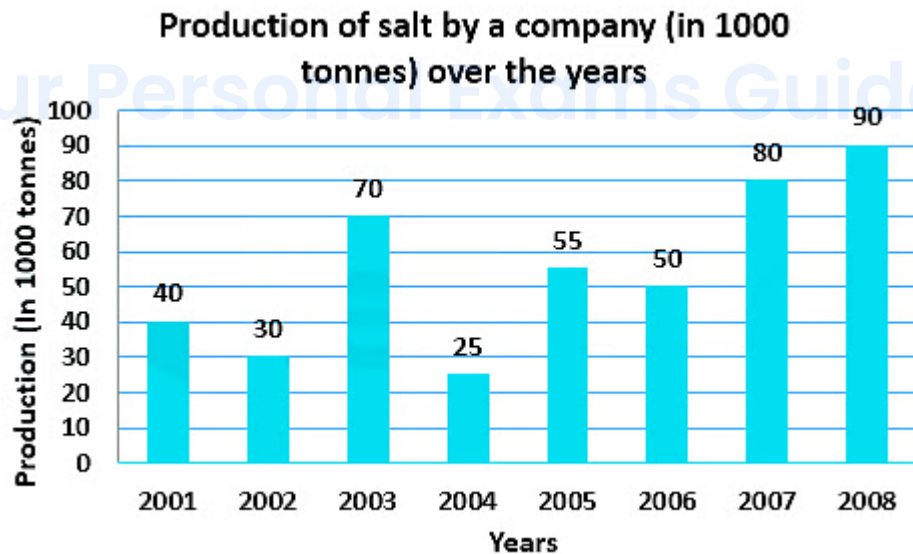
$$= 55 / 5 = 11$$

Therefore, the average of the squares of the first five natural numbers is 11.

28. Answer: c

**Explanation:**

Given:



**Calculation:**

$$\text{Production of salt in 2001 and 2003} = 40 + 70 = 110000 \text{ tonnes}$$

Production of salt in 2006 and 2007 =  $50 + 80 = 130000$  tonnes

Production of salt in 2001 and 2005 =  $40 + 55 = 95000$  tonnes

Production of salt in 2002 and 2007 =  $30 + 80 = 110000$  tonnes

Production of salt in 2005 and 2006 =  $55 + 50 = 105000$  tonnes

**Therefore, the average production of salt in 2001 and 2003 is exactly equal to the average production of salt in 2002 and 2007.**

---

## 29. Answer: c

### Explanation:

Given:

Perimeter of a rectangle = 68 cm

Area of the rectangle =  $240 \text{ cm}^2$

Concept Used:

Pythagoras theorem:  $\text{Perpendicular}^2 = \text{Length}^2 + \text{Breadth}^2$

Calculation:

Perimeter of Rectangle =  $2(l + b)$

So,  $2(l + b) = 68$

$\Rightarrow l + b = 34$  (1)

Area of rectangle =  $l \times b$

So,  $l \times b = 240$  (2)

From (1), we get  $l = 34 - b$ ,

Then,  $(34 - b) \times b = 240$

$$\Rightarrow b^2 - 34b + 240 = 0$$

Split the middle term to form factors, we get

$$\Rightarrow b^2 - 10b - 24b + 240 = 0$$

$$\Rightarrow b(b - 10) - 24(b - 10) = 0$$

$$\Rightarrow (b - 24)(b - 10) = 0$$

$$\Rightarrow b = 10 \text{ or } 24$$

Then, Length = 24 or 10 cm

$$\text{Length of diagonal} = \sqrt{24^2 + 10^2} = \sqrt{576 + 100} = \sqrt{676} = 26 \text{ cm.}$$

Therefore, the length of each of its diagonals is 26 cm.

---

30. Answer: c

Explanation:

Given:

Pie chart is given for 7 laptop brands

$$B2 = 22\%$$

$$B5 = 18\%$$

Calculation:

$$\text{Difference between \% of B2 and B5} = 22 - 18 = 4\%$$

$$\text{For 100\%, central angle} = 360^\circ$$

$$\therefore \text{for 4\%, central angle} = (360 \times 4)/100$$

$$= 14.4^\circ$$

∴ The required central angle is 14.4°.

---

**31. Answer: b**

**Explanation:**

Given:

Discounts = 12% and 8%

Concept Used:

Single Equivalent Discount =  $(x + y) - \frac{xy}{100}$

Calculation:

Single equivalent discount of 12% and 8%

$$= 12 + 8 - \frac{(12 \times 8)}{100}$$

$$\text{Single equivalent discount} = 20 - \frac{96}{100}$$

$$= 20 - 0.96 = 19.04\%$$

Therefore, the single discount equivalent to two successive discounts of 12% and 8% is 19.04%.

---

**32. Answer: b**

**Explanation:**

Given:

Ratio of present ages of A and B = 3 : 5

Present age of A = 33 years

**Calculation:**

Let the present age of A be  $3x$  and B be  $5x$ .

$$\text{So, } 3x = 33$$

$$\Rightarrow x = 33/3 = 11$$

Present age of B =  $5x$

$$= 5 \times 11$$

$$= 55 \text{ years}$$

Age of B after 5 years =  $55 + 5$

$$= 60 \text{ years}$$

Therefore, the age of B after 5 years would be 60 years.

---

**33. Answer: b**

**Explanation:**

**Given:**

$$A = 3 + 7 \times 2$$

$$B = 12 \div 4 - 6$$

$$C = 6 \times 5 + 2$$

**Concept Used:**

BODMAS = Bracket, Of, Division, Multiplication, Addition, Subtraction

**Calculation:**

We have to find,  $A \times B + C$

$$\Rightarrow (3 + 7 \times 2) \times (12 \div 4 - 6) + (6 \times 5 + 2)$$

$$\Rightarrow 17 \times (-3) + 32$$

$$\Rightarrow -51 + 32 = -19$$

Therefore, the required value is **-19**.

### 34. Answer: a

#### Explanation:

Given:

Average of last five innings by Rohit = 58 runs

Runs scored in last four innings = 42, 56, 72 and 40

Concept Used:

Average = Sum of all values / Number of values

Maths:

Total runs scored in last four innings

$$= 42 + 56 + 72 + 40 = 210$$

Let the runs scored in the first innings be x.

Therefore, putting the values in the formula, we get

$$\Rightarrow (210 + x)/5 = 58$$

$$\Rightarrow 210 + x = 58 \times 5 = 290$$

$$\Rightarrow x = 290 - 210 = 80$$

Hence, the runs scored by Rohit in the first innings is 80.

**35. Answer: d**

**Explanation:**

**Given:**

Loan amount = Rs 700

Interest amount = Rs 343

**Concept Used:**

$$SI = P \times R \times T / 100$$

**Calculation:**

According to the question,

Time of interest = Rate of interest

$$\text{So, } SI = \frac{700 \times R \times T}{100}$$

$$\Rightarrow 343 = 7 \times R^2$$

$$\Rightarrow R^2 = 343 / 7 = 49$$

$$\Rightarrow R = 7\%$$

Therefore, the rate of interest is 7%.

---

**36. Answer: c**

**Explanation:**

**Given:**

Cost price of a pen = Rs 600



Cost price of a notebook = Rs 4,000

Loss percentage on selling pen = 20%

Loss percentage on selling notebook = 32%

**Calculation:**

$$\text{Selling price of pen} = \frac{100-20}{100} \times 600$$

$$= 80 \times 6 = \text{Rs } 480$$

$$\text{Selling price of notebook} = \frac{100-32}{100} \times 4000$$

$$= 68 \times 40 = \text{Rs } 2720$$

$$\text{Total selling price of pen and notebook} = 480 + 2720$$

$$= \text{Rs } 3200$$

$$\text{Total cost price of pen and notebook} = 600 + 4000$$

$$= \text{Rs } 4600$$

$$\text{Loss} = \text{CP} - \text{SP} = 4600 - 3200$$

$$= \text{Rs } 1400$$

$$\text{Total loss percentage made} = \frac{1400}{4600} \times 100 = 30.43\%$$

Therefore, the approximate percentage of total loss incurred through the two sales made is 30.43%.

**37. Answer: c**

**Explanation:**

Given:

Length of cuboidal box = 7 m

Breadth of cuboidal box = 5 m

Height of cuboidal box = 2 m

Rate of painting the box = Rs 2.4 per m<sup>2</sup>

**Concept Used:**

Total surface area of cuboid =  $2(lb + bh + hl)$

**Calculation:**

For painting the outside of a closed cuboidal box,

Total surface area to be painted =  $2(7 \times 5 + 5 \times 2 + 2 \times 7)$

Total area to be painted =  $2 \times (35 + 10 + 14)$

=  $2 \times 59 = 118 \text{ m}^2$

Total price of painting the outside of a box =  $2.4 \times 118$

= Rs 283.20

Therefore, the total cost of painting the outside of a closed cuboidal box is Rs 283.20.

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**38. Answer: a**

**Explanation:**

**Given:**

Time taken by Zee and Gee to complete a task = 24 days

Ratio of the efficiencies of Zee and Gee = 3 : 8

**Calculation:**

Let the efficiency of Zee be  $3x$  and Gee be  $8x$ .

$$\text{Total work done by Zee and Gee} = 24 \times (3x + 8x)$$

$$= 24 \times 11x = 264x$$

$$\text{Time taken by Gee to complete the task} = \text{Total work} / \text{Efficiency of Gee}$$

$$\Rightarrow \text{Time taken by Gee to complete the task} = 264x / 8x$$

$$= 33 \text{ days}$$

Therefore, Gee can complete the task alone in 33 days.

**39. Answer: b**

**Explanation:**

**Given:**

Monthly salary of Ravi = Rs 16,000

Salary spend on rent = 30%

Salary spend on education = 20%

Amount invested in mutual funds = 60% of the remaining amount

**Calculation:**

Salary spent on rent = 30% of 16000

$$\text{Salary spent on rent} = \frac{30}{100} \times 16000$$

$$= \text{Rs } 4,800$$

Salary spent on education = 20% of 16000

$$\text{Salary spent on education} = \frac{20}{100} \times 16000$$

$$= \text{Rs } 3,200$$

Total salary spent on rent and education =  $4800 + 3200$

= Rs 8,000

Salary left =  $16000 - 8000$

= Rs 8,000

Amount invested in mutual funds = 60% of 8000

=  $\frac{60}{100} \times 8000 = \text{Rs } 4,800$

Therefore, the amount invested in mutual funds in a month is Rs 4,800.

---

**40. Answer: a**

**Explanation:**

Given:

Ratio of LCM to the sum of two numbers =  $12 : 7$

HCF = 4

Concept Used:

Product of two numbers = LCM  $\times$  HCF

Calculation:

Let the two numbers be  $4a$  and  $4b$  where  $a$  and  $b$  are prime numbers.

So, LCM of two numbers =  $4ab$

According to the question,

$$\Rightarrow \frac{4ab}{4a+4b} = \frac{12}{7}$$

$$\Rightarrow ab / a + b = 12/7$$

$$\Rightarrow ab = 12 \text{ and } a + b = 7$$

$$\Rightarrow \text{So, } a \times (7 - a) = 12$$

$$\Rightarrow a^2 - 7a + 12 = 0$$

$$\Rightarrow a^2 - 3a - 4a + 12 = 0$$

$$\Rightarrow a(a - 3) - 4(a - 3) = 0$$

$$\Rightarrow (a - 4)(a - 3) = 0$$

$$\Rightarrow \text{So, } a = 3 \text{ or } a = 4$$

Putting  $a = 3$ , we get  $b = 4$

So, First number =  $4a = 12$

Second number =  $4b = 16$

Product of two numbers =  $12 \times 16 = 192$

Therefore, the product of two numbers is 192.

41. **Answer: c**

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**Explanation:**

**Given:**

Percentage Increase in price of cap = 15%

Increase in price of cap = Rs 27

**Calculation:**

Price in 1% =  $27 / 15 = 1.8$

Total price of cap =  $1.8 \times 100 = \text{Rs } 180$

Increased price of the cap =  $180 + 27 = \text{Rs } 207$

Therefore, the increased price of the cap is Rs 207.

**42. Answer: b**

**Explanation:**

Given:

Movies	The amount collected per movie (in Rs. '000)
M1	450
M2	370
M3	510
M4	640
M5	830

**Calculation:**

Total amount collected per movie in each screen =  $(450 + 370 + 510 + 640 + 830) \times 1000$

Total amount collected for all movies = Rs. 2800000

As mentioned the movies are displayed on 50 screens for each,

$$\text{Total screens} = 50 \times 5 = 250$$

$$\therefore \text{the average amount earned per movie per screen} = 2800000/250$$

$$= \text{Rs. } 11,200$$

$\therefore$  Required amount value is Rs. 11200.

**43. Answer: b**

**Explanation:**

**Given:**

X can complete a piece of work in = 16 days

Y can complete a piece of work in = 24 days

Work starting alternatively with Y.

**Calculation:**

$$\text{Total Work} = \text{LCM}(16, 24)$$

$$= 48 \text{ units}$$

$$\therefore 50\% \text{ work} = 48/2 = 24 \text{ units}$$

$$\text{Efficiency of X} = 48/16 = 3 \text{ units/day}$$

$$\text{Efficiency of Y} = 48/24 = 2 \text{ units/day}$$

$$\therefore 2 \text{ days work of X and Y} = 3 + 2 = 5 \text{ units}$$

$$\therefore \text{If they work together, they can complete work in 8 days} = 4 \times 5 = 20 \text{ units}$$

$$\text{On the 9}^{\text{th}} \text{ day, y works, so total work completed till 9th day} = 20 + 2 = 22 \text{ units}$$

$$\text{Work remaining} = 24 - 22 = 2 \text{ units}$$

On the 10<sup>th</sup> day, x works, efficiency of x = 3 units

so  $(2/3)$  part of the 10<sup>th</sup> day, the work will be completed.

Total days required =  $9 + 2/3 = 29/3$

∴ The required days to complete 50% of the work are  $29/3$ .

---

**44. Answer: a**

**Explanation:**

Given:

Numbers between 14 and 61 that are divisible by 5.

Concept Used:

Average = Total sum of values ÷ Total number of values

Calculation:

Numbers between 14 and 61 that are divisible by 5

= 15, 20, 25, 30, 35, 40, 45, 50, 55, 60

Sum of all values =  $15 + 20 + 25 + 30 + 35 + 40 + 45 + 50 + 55 + 60 = 375$

Total values = 10

Average =  $375 \div 10 = 37.5$

Therefore, the average of numbers between 14 and 61 that are divisible by 5 is 37.5.

---

**45. Answer: d**

**Explanation:**



**Given:**

Sum of squares of present ages = 525

Five years from now, the ratio of ages of A, B and C = 3 : 5 : 2

**Calculation:**

Let x be a term.

So the ages of A, B and C be 3x, 5x, and 2x.

Present ages will be 3x - 5, 5x - 5, 2x - 5.

According to the question,

$$\Rightarrow 9x^2 + 25 - 30x + 25x^2 + 25 - 50x + 4x^2 + 25 - 20x = 525$$

$$\Rightarrow 38x^2 - 100x + 75 - 525 = 0$$

$$\Rightarrow 38x^2 - 100x - 450 = 0$$

$$\Rightarrow 38x^2 - 190x + 90x - 450 = 0$$

$$\Rightarrow 38x(x - 5) + 90(x - 5) = 0$$

$$\Rightarrow (38x + 90)(x - 5) = 0$$

So, age can't be negative, then  $x = 5$ .

Present age of B =  $5 \times 5 - 5 = 20$  years

Therefore, the present age of B is 20 years.

---

**46. Answer: a**

**Explanation:**

**Given:**

$$\sqrt{19 \times 650 \div 13 + 18.5 \times 4 \times 13} = ?$$

**Calculation:**

$$\Rightarrow \sqrt{19 \times 650 \div 13 + 18.5 \times 4 \times 13}$$

$$\Rightarrow \sqrt{19 \times 50 + 18.5 \times 4 \times 13}$$

$$\Rightarrow \sqrt{950 + 74} \times 13$$

$$\Rightarrow \sqrt{1024} \times 13 = 32 \times 13 = 416$$

Therefore, the value of the mathematical statement is 416.

47. **Answer: a**

**Explanation:**

**Given:**

Speed of person goes from P to Q = 20 km/h

Speed of person goes from Q to R = q km/h

Speed of person goes from R to S = r km/h

Average speed from P to R =  $\frac{280}{11}$  km/h

Average speed from Q to S =  $\frac{112}{3}$  km/h

**Calculations:**

Let the distance between P to Q be d.

$$QR = d$$

$$RS = d$$

Average speed = total distance/total time

Total time = distance/speed

$$\text{Time taken by train from P to Q} = d/20 \text{ -----(1)}$$

Time taken by train from Q to S

$$= 2d/(112/3)$$

$$= 3d/56$$

$$\text{Time taken by train from P to R} = 2d/(280/11) \text{ -----(2)}$$

Time taken by train from Q to R

$$\text{From Eq } ^n(2) - \text{Eq } ^n(1)$$

$$= 2d/(280/11) - d/20$$

$$= 11d/140 - d/20$$

$$= 11d/140 - 7d/140$$

$$= 4d/140$$

$$= d/35$$

Total time by train from R to S = Time taken from Q to S - Time taken from Q to R

$$= 3d/56 - d/35$$

$$= 49d/1960$$

$$= d/40$$

Now, According to question,

Time is taken by train from R to S:

$$d/r = d/40$$

$$\Rightarrow r = 40 \text{ km/h}$$

Hence, The Required value of  $r = 40 \text{ km/h}$ .

---

**48. Answer: c**

**Explanation:**

**Given:**

Length of each side of a cube = 4 cm

**Concept Used:**

Volume of cube = Side<sup>3</sup>

**Calculation:**

Volume of cube =  $4 \times 4 \times 4$

Volume of cube =  $64 \text{ cm}^3$

Therefore, the volume of the cube is  $64 \text{ cm}^3$ .

---

**49. Answer: a**

**Explanation:**

**Given:**

Time = 8 years

Interest rate = 18% p.a.

Amount received after 8 years = Rs 1,220

**Concept Used:**

Simple Interest =  $P \times R \times T / 100$

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**Calculation:**

Let the sum of money invested be Rs x.

$$SI = x \times 18 \times 8 / 100 = 36x / 25$$

According to the question,

$$\Rightarrow x + 36x / 25 = 1220$$

$$\Rightarrow 25x + 36x = 1220 \times 25$$

$$\Rightarrow 61x = 30,500$$

$$\Rightarrow x = 30500 \div 61 = 500$$

Therefore, the sum of money invested is Rs 500.

---

**50. Answer: b**

**Explanation:**

**Given:**

Speed of Piu = 5 km/h

Speed of Titu = 2 km/h

Distance they'll be apart = 10.5 km

**Concept Used:**

Distance = Speed × Time

**Calculation:**

Let the time taken be t hours.

According to the question,

$$\Rightarrow 5t + 2t = 10.5$$

$$\Rightarrow 7t = 10.5$$

$$\Rightarrow t = 10.5 / 7 = 1.5 \text{ hours}$$

Therefore, Piu and Titu will be apart by 10.5 km in 1.5 hours.

## 51. Answer: c

### Explanation:

The correct answer is: **Massive**

#### ★ Key Points

- **Bulky** means taking up much space; large and unwieldy. (ज्यादा जगह लेना; बड़ा और बोझिल)
  - Example – *Early mobile phones were bulky and expensive.*
- Marked option **Massive** means large and heavy or solid. (बड़ा और भारी या ठोस)
  - Example – *They have a massive house.*
- It is clear that '**Bulky**' and '**Massive**' are similar in meaning.

Therefore the correct answer is option 3.

#### ★ Additional Information

- **Airy** means being light and graceful in movement or manner. (आंदोलन या तरीके से हल्का और सुशोभित होना)
- **Soft** means not hard or firm; changing its shape when pressed. (कठोर या दृढ़ नहीं; दबाने पर उसका आकार बदल जाता है)
- **Scanty** means small or insufficient in quantity or amount. (मात्रा या राशि में छोटा या अपर्याप्त)

## 52. Answer: d

## Explanation:

The correct answer is: **Hardly had he disappeared when her mother**

### ★ Key Points

- Replace " **that** " with " **when** " to correct the sentence.
- In more formal styles, to refer to something happening immediately after something else, we use " **hardly ... when** ".
- We place " **hardly** " to the front position and invert the subject and verb.
- **Hardly** is used at the start of any sentence.
- Past perfect is used in these types of sentences while using Hardly...when.
  - **Example** - *Hardly had the sun risen when the birds started chirping.*
- " **That** " is used to indicate a specific object, item, person, condition, etc
- We use, ' **when** ' to mean 'during the time that', to connect two events happening at the same time or one after another.

Therefore, the correct answer is **option 4** , improving the sentence's underlined part.

**Corrected sentence:** *Hardly had he disappeared when her mother clomped down the steps, looking for him.*

## 53. Answer: c

## Explanation:

The correct answer is: **suitable**

### ★ Key Points

- Let's look at the meaning of the given words.
  - **Worthy** means a person notable or important in a particular sphere. (किसी विशेष क्षेत्र में उल्लेखनीय या महत्वपूर्ण व्यक्ति)
  - **Comfortable** means being in a state of physical or mental comfort. (शारीरिक या मानसिक आराम की स्थिति में होना)

- **Suitable** means right or appropriate for a particular person, purpose, or situation. (किसी विशेष व्यक्ति, उद्देश्य या स्थिति के लिए सही या उपयुक्त)
- **Entitled** means believing oneself to be inherently deserving of privileges or special treatment. (अपने आप को विशेषाधिकारों या विशेष उपचार के लिए स्वाभाविक रूप से योग्य मानना)
- The implied meaning of the sentence is: My acquaintance is unfit to do this challenging task.
- So, as per the meaning of the given words " suitable " is the most appropriate option to fill in the blank.

Therefore, the correct answer is option 3 .

Complete sentence: *My friend is not Suitable for this complicated assignment.*

54. Answer: b

Explanation:

The correct answer is: **have a moment**

★ Key Points

- **Have** is used with the pronouns I, you, we, and they.
  - **Meeting** means an assembly of people for a particular purpose, especially for formal discussion. (बैठक)
  - **Moment** means a very short period of time. (पल)
  - **Nap** means sleep lightly or briefly, especially during the day. (झपकी लेना)
  - **Ride** means a journey made on a horse, bicycle, or motorcycle, or in a vehicle. (सवारी)
- So, as per the meaning of the given sentence, " **moment** " is the most appropriate option.

Therefore, the correct answer is **option 2** .

**Complete sentence:** *But if you have a moment to spare before you do catch the bus, be sure to pop in.*



55. Answer: c

**Explanation:**

The correct answer is: **began writing on**

★ Key Points

- Replace " begun " with " began " and the preposition " at " with " on " to correct the sentence.
- Begun is the third form of the verb "begin" which means to start doing something.
- The given sentence is written in the simple past tense .
- The structure should be: Subject + v2+ object
- So, the second form of the verb " began " should be used here.
- Similarly, " at " is used to express the time when an event takes place.
- " on " is used in contact with and supported by something.
- In the given sentence "writing on the pad" means touching a surface of an object.

Therefore, the correct answer is option 3 .

Corrected sentence: *Michael nodded and began writing on his pad.*

---

56. Answer: d

**Explanation:**

The correct answer is: **No substitution required**

★ Key Points

- In the given sentence someone is asking another one to recall what happened in the past.
- **Saw** is the past tense form of the verb "see."

- " **Have been** " is used in the present perfect tense when describing an action completed in the recent past and still assumes importance in the present.
- **Seen** is the past participle form and is used to form the perfect verb tenses.
- " **Have + verb + ing** " is used to form the present perfect continuous tense to show that something started in the past and is continuing at the present time.
- The given sentence is talking about the incidents that happened in the past and ended in the past as well, so, the 2nd form of verb is used (saw).
- So, the given sentence is both grammatically and conceptually correct.

Therefore, the correct answer is **option 4** .

## 57. Answer: a

### Explanation:

The correct answer is: **a bike dropped off**

#### ★ Key Points

- Replace the article " **an** " with " **a** " and the preposition " **for** " with " **off** " to correct the sentence.
- **A** and **an** are two different forms of the same word: the indefinite articles that are used before noun phrases.
- " **A** " goes before words that begin with consonants.
  - **Example** - *A cycle, A motor vehicle.*
- " **An** " goes before words that begin with vowels.
  - **Example** - *An elephant, An umbrella.*
- In the given sentence the word " **bike** " starts with the consonant ' **b** '. So, we should use " **a bike** "
- " **Drop off** " means to take someone or something to a particular place, usually by car, as you travel to a different place.
  - **Example** - *We dropped our luggage off at the hotel and went sightseeing.*
- We use ' **for** ' to talk about a purpose or a reason for something.
  - **Example** - *Simon has been sleeping for 8 hours.*

- The implied meaning of the sentence is: *The package was left outside the premises by an anonymous man riding a bike.*

Therefore, it is clear that the correct answer is **option 1**, which will improve the underlined part of the sentence.

**Corrected sentence:** *An unidentified man on a bike dropped off the box outside the building.*

## 58. Answer: a

### Explanation:

The correct answer is: **Genius**

#### ★ Key Points

- **Maestro** means someone who can do something very well in a skilled manner. (कोई व्यक्ति जो कुशल तरीके से कुछ बहुत अच्छा कर सकता है)
  - Example - *Messi is really, a maestro of the dribble.*
- Marked option **Genius** means an exceptionally intelligent person or one with exceptional skill in a particular area of activity. (असाधारण रूप से बुद्धिमान व्यक्ति या गतिविधि के किसी विशेष क्षेत्र में असाधारण कौशल वाला व्यक्ति)
  - Example - *The film was about an evil genius who wanted to control the world.*
- It is clear that '**Maestro**' and '**Genius**' are similar in meaning.

Therefore the correct answer is option 1.

#### ★ Additional Information

- **Senile** means showing poor mental ability because of old age. (वृद्धावस्था के कारण खराब मानसिक क्षमता दिखाना)
- **Slender** means thin and delicate, often in a way that is attractive. (पतली और नाजुक, अक्सर एक तरह से आकर्षक होती है)
- **Novice** means a person new to and inexperienced in a job or situation. (एक व्यक्ति एक नौकरी या स्थिति में नया और अनुभवहीन)

59. Answer: d

### Explanation:

The erroneous part of the sentence is: **the days had pass**

#### ★ Key Points

- Replace " **pass** " with " **passed** " to correct the sentence.
- The given sentence is written in the past tense. (exclaimed is mentioned)
- We use " **had** " specifically in the **past perfect tense** which refers to a time earlier than before now.
- The past perfect tense has the following structure: **Subject + had + v3+ object**.
  - **Example** - *Misha had cleaned the floor.*
- So, the third form of the verb " **passed** " should be used here in the given sentence.

Therefore, the correct answer is **option 4** , which contains the error.

**Corrected sentence:** *My mother exclaimed at how fast the days had passed.*

60. Answer: d

### Explanation:

The correct answer is: **To cause disruption or confusion**

#### ★ Key Points

- "**To raise a dust**" is an idiomatic phrase that means to cause disruption, confusion, or turmoil. (व्यवधान, भ्रम या अशांति पैदा करने के लिए)
  - Example - *The MP's resignation raised a dust of uncertainty within parliament about the future of the prime minister's agenda.*
- So, it is clear that the most appropriate meaning of the given idiom "**To raise a dust**" is "**To cause disruption or confusion** "

Hence, the correct answer is option 4.

---

61. Answer: a

**Explanation:**

The correct answer is: **No sooner had she taken a few steps forward than**

★ Key Points

- " **No sooner** " is used to show that one thing happens immediately after another thing.
- It is often used with the past perfect, and usually followed by " **than** ."
- " **No sooner... than** " is correlative conjunction.
- **Correlative conjunctions** are conjunctions used to illustrate how two words or phrases within a sentence relate to each other.
- Correlative conjunctions always come in pairs.
- "No sooner" is almost always followed immediately by a verb.
- The structure " **no sooner...than** " is quite literary, where no sooner is used in front position, we invert the order of the auxiliary verb and subject.
  - **Example** - *No sooner had they started their walk than it started to rain.*
- So, except option 1, no other option is matching the correct structure of "no sooner...than."

Therefore, the correct answer is **option 1** .

**Corrected sentence:** *No sooner had she taken a few steps forward than she suddenly recoiled.*

---

62. Answer: d

**Explanation:**

The correct answer is: **breathlessly**

★ Key Points

- Let's look at the meaning of the given words.
  - **Comparably** means in a way that is similar in size, amount, or quality to something else. (एक तरह से जो किसी चीज़ के आकार, मात्रा या गुणवत्ता के समान हो)
  - **Relatively** means in relation, comparison, or proportion to something else. (किसी चीज़ के संबंध, तुलना या अनुपात में)
  - **Enjoyably** means in a way that gives delight or pleasure. (एक तरह से जो आनंद या आनंद देता है)
  - **Breathlessly** means in a way that is characterized by great excitement or suspense. (एक तरह से जो बहुत उत्साह या रहस्य की विशेषता है)
- The implied meaning of the sentence is: A courier rushed in to announce the king's coming one day as the queen was painting.
- So, as per the meaning of the given words "**breathlessly**" is the most appropriate option to fill in the blank.

Therefore, the correct answer is option 4 .

Complete sentence: *One day, the queen was painting when a messenger entered **breathlessly** to convey the king's arrival.*

63. Answer: b

**Explanation:**

The correct answer is: **No error**

★ Key Points

- We add **-s** after a noun to make it plural.
- **Migrants** is a plural subject, which means a person who moves from one place to another, especially in order to find work or better living conditions.
- The verb "**work**" is also plural in form.
- So, the sentence is both grammatically and conceptually correct.

Hence, the correct answer is **option 2**.

64. Answer: b

**Explanation:**

The correct answer is: **Can we all**

★ Key Points

- Replace " **all us** " with " **we all** " to correct the sentence.
- **May** is used to express possibility or ask permission.
- **Can** is used to express ability and informally used to ask permission.
- **Should** is used to indicate what is probable.
- " **We** " is a subject pronoun and is used in the subject position.
- " **Us** " is an object pronoun and is used in object position.
- "we all" means everybody including the speaker.
- So, to give a proper meaning to the above sentence we must use " **Can we all** "

Therefore, the correct answer is **option 2** .

**Corrected sentence:***Can we all sleep in the same room, Mother?*

---

65. Answer: c

**Explanation:**

The erroneous part of the sentence is: **Neither she not I**

★ Key Points

- Replace " **not** " with " **nor** " to correct the sentence.
- We can use neither as a conjunction with nor. It connects two or more negative alternatives. It is called correlative conjunction.
- **Correlative conjunctions** are conjunctions used to illustrate how two words or phrases within a sentence relate to each other.
- Correlative conjunctions always come in pairs. (either/or, neither/nor)

- ' **Neither/nor** ' is used when two options are invalid.
- In the given sentence it is said that, she and I are not participating in the debate tournament. (both are negative)
- We use " **nor** " before the second or farther of two alternatives when " **neither** " introduces the first.

Therefore, the correct answer is **option 3** , which contains the error.

**Corrected sentence:***Neither she nor I am going to take part in the debate competition.*

## 66. Answer: c

### Explanation:

The correct answer is: **Fiery**

#### ★ Key Points

- **Fiery** means consisting of fire or burning strongly and brightly. (आग से मिलकर या जोर से और चमक से जलना)
  - Example - *The sun was a fiery ball low on the hills.*
- Therefore, except option 3, the rest of the options are incorrect.

Hence, the correctly spelt word is '**Fiery**' which is mentioned in option no 3 .

#### ★ Additional Information

- Let's look at the misspelt words and their correct spellings.
- Hieght = **Height**
  - **Meaning:** the measurement of someone or something from head to foot or from base to top. (सिर से पैर तक या आधार से ऊपर तक किसी का या किसी चीज का माप)
- Beleive = **Believe**
  - **Meaning:** To accept that something is true, especially without proof. (यह स्वीकार करना कि कुछ सत्य है, विशेषकर बिना प्रमाण के)
- Foriegn = **Foreign**



- **Meaning:** Born in, belonging to, or characteristic of some place or country other than the one under consideration. (विचाराधीन के अलावा किसी अन्य स्थान या देश में पैदा हुआ, उससे संबंधित या उसकी विशेषता)

67. Answer: c

**Explanation:**

The correct answer is: **Solitary**

★ Key Points

- The correct spelling should be: **Solitary**
- Solitary means being the only one, or not being with other similar things, often by choice. (केवल एक ही होना, या अन्य समान चीजों के साथ नहीं होना, अक्सर पसंद से)
  - Example – *He enjoys solitary walks in the wilderness.*
- Therefore, except option 3, the rest of the options are correct.

Hence, the incorrectly spelt word is 'Solitory' which is mentioned in option no 3.

★ Additional Information

- **Strangled** means uttered with difficulty, as if from a constricted throat. (कठिनाई से बोला जाता है, जैसे कि कंठ से)
- **Dominion** means the territory of a sovereign or government. (एक संप्रभु या सरकार का क्षेत्र)
- **Persecution** means unfair or cruel treatment over a long period of time because of race, religion, or political beliefs. (नस्ल, धर्म या राजनीतिक मान्यताओं के कारण लंबे समय तक अनुचित या क्रूर व्यवहार)

68. Answer: d

**Explanation:**

The correct answer is: **healthy**

★ Key Points

- Let's look at the meaning of the given words.
  - **Marginal** means that something is small or not very important. (कुछ छोटा है या बहुत महत्वपूर्ण नहीं है)
  - **Shrieking** means in relation, comparison, or proportion to something else. (किसी चीज के संबंध, तुलना या अनुपात में)
  - **Wealthy** means in a way that gives delight or pleasure. (एक तरह से जो आनंद या आनंद देता है)
  - **Healthy** means in a way that is characterized by great excitement or suspense. (एक तरह से जो बहुत उत्साह या रहस्य की विशेषता है)
- The implied meaning of the sentence is: If you want to live a long and fit life, you must exercise every day.
- So, as per the meaning of the given words "**healthy**" is the most appropriate option to fill in the blank.

Therefore, the correct answer is option 4 .

Complete sentence: *You really need to exercise daily, if you want to live a long and **healthy** life.*

69. Answer: d

**Explanation:**

The correct answer is: **To have an ulterior motive**

★ Key Points

- "**Have an axe to grind**" is an idiomatic phrase that means to have a private reason for doing or being involved in something. (किसी चीज को करने या उसमें शामिल होने का एक निजी कारण है)
  - Example - *Environmentalists have no political axe to grind, they just want to save the planet.*
- So, it is clear that the most appropriate meaning of the given idiom "**have an axe to grind**" is "**To have an ulterior motive**"

Hence, the correct answer is option 4.

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70. Answer: c

**Explanation:**

The correct answer is: **Pretended**

★ Key Points

- **Unfeigned** means devoid of any hypocrisy or pretense: genuine. (किसी भी पाखंड या ढोंग से रहित: वास्तविक)
  - Example - *If you greet a friend with **unfeigned** joy, she'll know you are happy to see her.*
- Marked option **Pretended** means to behave in a particular way in order to make other people believe something that is not true. (प्रदर्शन, ढोंग या दिखावा करना)
  - Example - *His **pretended** wealth was proved to be nonexistent.*
- It is clear that '**Unfeigned**' and '**Pretended**' are opposite in meaning.

Therefore the correct answer is option 3.

★ Additional Information

- **Sincere** means not pretending or lying; honest. (ढोंग या झूठ नहीं बोलना: ईमानदार)
  - **Genuine** means sincere and honest; that can be trusted. (सच्चा और ईमानदार; विश्वास के योग्य)
  - **Expressive** means showing feelings or thoughts. (भावभरा, भावाभिव्यंजक)
- 

71. Answer: b

**Explanation:**

The correct answer is: **Universally**

★ Key Points

- Let's look at the meaning of the given words.
  - **Manically** means in a busy, excited or anxious way. (व्यस्त, उत्साहित या चिंतित तरीके से)
  - **Universally** means involving or affecting everyone in the world. (दुनिया में सभी को शामिल करना या प्रभावित करना)
  - **Specifically** means in a definite and exact way. (निश्चित और सटीक तरीके से)
  - **Casually** means anything you do in a relaxed, informal sort of way. (गंभीर नहीं इसलिए संयोग से)
- The implied meaning of the sentence is: *One of the most influential playwrights of the modern era was Gladstone O'Neill, who was well regarded.*
- So, as per the meaning of the given words "**universally**" is the most appropriate option to fill in the blank.

Therefore, the correct answer is option 2 .

Complete passage: *When he died on 27 November 1953, Gladstone O'Neill was (1) **universally** recognized as one of the major dramatists of the modern world. Four times a Pulitzer Prize winner, he had also been (2) \_\_\_\_\_ the 1936 Nobel Prize for Literature. His plays have been translated into most major languages and read by more people than those of (3) \_\_\_\_\_ other playwrights except W Shakespeare and maybe G Bernard Shaw. O'Neill was a puzzle to his friends – a genuinely shy, brooding, complicated man with whom (4) \_\_\_\_\_ alternated with touching kindness. He was both, naive and worldly. One biographer found him "sentimental one instant, hard as nails the next." His widow, after 26 years with O'Neill, said, "To (5) \_\_\_\_\_ his work you must understand the man, for the work and the man are one."*

## 72. Answer: b

### Explanation:

The correct answer is: **Awarded**

#### ★ Key Points

- Let's look at the meaning of the given words.

- **Rewarded** means to give something to somebody because he/she has done something good, worked hard, etc. (इनाम)
- **Awarded** means to give something to somebody as a prize, payment, etc. (पुरस्कार)
- **Unaided** means without any help from anyone else; independently. (स्वतंत्र रूप से)
- **Crowded** means filled with many or too many people or things. (भीड़-भाड़)
- The implied meaning of the sentence is: *Additionally, he had received the 1936 Nobel Prize in Literature.*
- An **award** is given to recognize and honor a person's achievement, while a **reward** is given to someone who completes a task successfully.
- So, as per the meaning of the given words "**awarded**" is the most appropriate option to fill in the blank.

Therefore, the correct answer is option 2 .

Complete passage: *When he died on 27 November 1953, Gladstone O'Neill was (1) universally recognized as one of the major dramatists of the modern world. Four times a Pulitzer Prize winner, he had also been (2) awarded the 1936 Nobel Prize for Literature. His plays have been translated into most major languages and read by more people than those of (3) \_\_\_\_\_ other playwrights except W Shakespeare and maybe G Bernard Shaw. O'Neill was a puzzle to his friends - a genuinely shy, brooding, complicated man with whom (4) \_\_\_\_\_ alternated with touching kindness. He was both, naive and worldly. One biographer found him "sentimental one instant, hard as nails the next." His widow, after 26 years with O'Neill, said, "To (5) \_\_\_\_\_ his work you must understand the man, for the work and the man are one."*

73. **Answer: c**

**Explanation:**

The correct answer is: any

★ **Key Points**

- Let's look at the meaning of the given words.
  - None means not one of a group of people or things or not any. (कोई भी नहीं)
  - Few means a small number of people or things. (कुछ, बहुत नहीं)
  - Any means one or some or every or all without specification. (कोई कोई)
  - Some mean a number of people or things, or an amount of something when the exact number or amount is not stated. (कुछ कुछ)
- The implied meaning of the sentence is: *More individuals than any other playwright, with the possible exception of W. Shakespeare and G. Bernard Shaw, have read his plays in most of the main languages.*
- "Any other" is used to refer to a person or thing that is not particular or specific but is not the one named or referred to.
- So, as per the meaning of the given words "any" is the most appropriate option to fill in the blank.

Therefore, the correct answer is option 3 .

Complete passage: *When he died on 27 November 1953, Gladstone O'Neill was (1) universally recognized as one of the major dramatists of the modern world. Four times a Pulitzer Prize winner, he had also been (2) awarded the 1936 Nobel Prize for Literature. His plays have been translated into most major languages and read by more people than those of (3) any other playwrights except W Shakespeare and maybe G Bernard Shaw. O'Neill was a puzzle to his friends - a genuinely shy, brooding, complicated man with whom (4) \_\_\_\_\_ alternated with touching kindness. He was both, naive and worldly. One biographer found him "sentimental one instant, hard as nails the next." His widow, after 26 years with O'Neill, said, "To (5) \_\_\_\_\_ his work you must understand the man, for the work and the man are one."*

74. Answer: d

**Explanation:**

The correct answer is: **cruelty**

★ Key Points

- Let's look at the meaning of the given words.
  - **Failure** means failing to perform a duty or expected action. (असफलता)
  - **Success** means the achieving of desired results, or someone or something that achieves positive results. (सफलता)
  - **Benefit** means an advantage or profit gained from something. (फ़ायदा)
  - **Cruelty** means behavior that deliberately causes pain or distress to people or animals. (क्रूरता)
- The implied meaning of the sentence is: *To his friends, O'Neill was a mystery since he was a really introverted, melancholy, and complex individual whose vicious behavior alternated with profound tenderness.*
- So, as per the meaning of the given words "**cruelty**" is the most appropriate option to fill in the blank.

Therefore, the correct answer is option 4 .

Complete passage: *When he died on 27 November 1953, Gladstone O'Neill was (1) universally recognized as one of the major dramatists of the modern world. Four times a Pulitzer Prize winner, he had also been (2) awarded the 1936 Nobel Prize for Literature. His plays have been translated into most major languages and read by more people than those of (3) any other playwrights except W Shakespeare and maybe G Bernard Shaw. O'Neill was a puzzle to his friends - a genuinely shy, brooding, complicated man with whom (4) cruelty alternated with touching kindness. He was both, naive and worldly. One biographer found him "sentimental one instant, hard as nails the next." His widow, after 26 years with O'Neill, said, "To (5) \_\_\_\_\_ his work you must understand the man, for the work and the man are one."*

## 75. Answer: c

### Explanation:

The correct answer is: **understand**

### ★ Key Points

- Let's look at the meaning of the given words.

- **Prepare** means to make someone ready or able to do or deal with something. (तैयार करना)
  - **Produce** means to make something or bring something into existence. (उत्पादन)
  - **Understand** means knowing the meaning of something, or the reasons for something. (समझना)
  - **Demonstrate** means to make evident or establish by arguments or reasoning; prove. (प्रदर्शन करना)
- The implied meaning of the sentence is: *Because the man and the job are one, understanding his work requires understanding the guy.*
  - So, as per the meaning of the given words " understand " is the most appropriate option to fill in the blank.

Therefore, the correct answer is option 3 .

Complete passage: *When he died on 27 November 1953, Gladstone O'Neill was (1) universally recognized as one of the major dramatists of the modern world. Four times a Pulitzer Prize winner, he had also been (2) awarded the 1936 Nobel Prize for Literature. His plays have been translated into most major languages and read by more people than those of (3) any other playwrights except W Shakespeare and maybe G Bernard Shaw. O'Neill was a puzzle to his friends – a genuinely shy, brooding, complicated man with whom (4) cruelty alternated with touching kindness. He was both, naive and worldly. One biographer found him "sentimental one instant, hard as nails the next." His widow, after 26 years with O'Neill, said, "To (5) understand his work you must understand the man, for the work and the man are one."*

## 76. Answer: a

### Explanation:

The correct answer is Part IV.

★ Key Points



- Part IV of the Constitution of India deals with the Directive Principles of State Policy.
- The DPSP is mentioned in Part IV of the Constitution of India ( Article 36–51) .
- The concept of DPSP had been taken from the Irish Constitution .
- It is non-enforceable by the court and it is non-justiciable in nature.
- Some important provisions of the DPSP are Living Wage etc for workers (Article 43), Equal justice and free legal aid (Article 39A), Promotion of international peace and security (Article 51), uniform civil code for citizens (Article 44), protection of forests and wildlife (Article 48A) etc.

### ★ Additional Information

- There were 22 parts 395 articles and 8 schedules at the time of the formation of the Indian constitution.
- As of November 2022 , it consists of 448 Articles divided into 25 parts, 12 schedules .
- The parts of the Indian Constitution are as follows:
  1. Part I – The Union and its Territories
  2. Part II – Citizenship
  3. Part III – Fundamental Rights
  4. Part IV – Directive Principles of State Policy
  5. Part IV A – Fundamental Duties
  6. Part V – The Union
  7. Part VI – The States
    - (Part VII – deleted)- The States in Part B of the First Schedule
  8. Part VIII – The Union Territories
  9. Part IX – The Panchayats
  10. Part IXA – The Municipalities
  11. Part IXB – The Co-operative Societies
  12. Part X – The Scheduled and Tribal Areas
  13. Part XI – Relation between the Union and the States
  14. Part XII – Finance, Property, Contracts, and Suits
  15. Part XIII – Trade, Commerce, and Intercourse within the territory of India
  16. Part XIV – Services Under the Union and the States
  17. Part XIVA – Tribunals
  18. Part XV – Elections

19. Part XVI – Special provisions relating to certain classes
20. Part XVII – Official language
21. Part XVIII – Emergency Provisions
22. Part XIX – Miscellaneous
23. Part XX – Amendment of the Constitution
24. Part XXI – Temporary, Transitional, and Special Provisions
25. Part XXII – Short Title, Commencement, Authoritative Text in Hindi and Repeals

77. Answer: b

### Explanation:

The correct answer is Kishore Kumar.

#### ★ Key Points

- **Kishore Kumar** is an Indian playback singer and actor.
- He has been extensively seemed as one of the finest and most dynamic singers in the history of Indian song
- He won eight Filmfare Awards for quality Male Playback Singer and held the file for triumphing the maximum number of Filmfare Awards in that category.
- The Madhya Pradesh government provided him with the **Lata Mangeshkar Award** in 1985.

#### ★ Additional Information

- **Kashinath Ghanekar (14 August 1930 – 2 March 1986)** become a well-known level actor and dental health practitioner.
- **Pranab Mukherjee (11 December 1935 – 31 August 2020)** turned into a statesman who served because of the thirteenth president of India from **2012 until 2017**.
- **Sunil Chhetri** is an Indian expert footballer who performs as a forward and captains both the Indian wonderful League membership Bengaluru and the Indian country-wide crew.

78. Answer: a

**Explanation:**

The correct answer is Lavender Revolution.

★ Key Points

- The Union Ministry of technology and era initiated the purple Revolution or **Lavender Revolution in 2016** thru the Aroma undertaking of the CSIR.
- Lavender farming is done in almost all of **Jammu and Kashmir's 20 districts** .
- The cultivation of lavender is nicely framed in Pulwama and Anantnag
- Pink Revolution was released to empower home farmers and support India's fragrant crop-based totally agro-economic system with the aid of decreasing imports of aromatic oils and growing homegrown sorts.

★ Additional Information

- **The Indigo rebellion** (Neel Bidroho) occurred in Bengal in 1859-60 and changed into an insurrection by way of the farmers against British planters who had forced them to grow indigo beneath phrases that were greatly damaging to the farmers.
- The rainbow revolution is associated with **Agricultural Industries**.

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79. Answer: d

**Explanation:**

The correct answer is Raja Ram Mohan Roy.

★ Key Points

- **Brahmo Samaj** is the societal thing of Brahmoism, which commenced as a monotheistic reformist motion of the Hindu religion that was regarded for the duration of the Bengal Renaissance.

- It becomes started in Calcutta on **20 August 1828** by Raja Ram Mohan Roy and Dwarkanath Tagore.
- **Divisions of Brahmo Samaj**
  - Adi Brahmo Samaj
  - Sadharan Brahmo Samaj
- In **1861** the Brahmo Samaj become founded in Lahore via Nobin Roy.

★ Additional Information

- **Swami Vivekananda**, become an Indian Hindu monk, truth seeker, writer, religious teacher, and the leading disciple of the Indian mystic Ramakrishna.
- **Ishwar Chandra Vidyasagar** changed into an Indian educator and social reformer of the **19th century**.
- **Dayanand Saraswati** became an Indian logician, social chief, and founding father of the Arya Samaj, a reform movement of the Vedic dharma.

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80. Answer: a

**Explanation:**

The correct answer is Migration from rural areas.

★ Key Points

- They move from **one rural location to another or from rural to urban regions**
- People are determined to emigrate for many motives. People and families bear in mind elements such as dangers, aspirations, and socio-monetary situations.
- Those sorts of migration check with the motion of human beings from one urban or rural place to a distinct urban or rural region.
- Inner moves from rural regions to city regions are referred to as urbanization or city transition.

★ Additional Information

- **Rural non-farm employment** includes food processing or clothing manufacture in the production quarter, further offerings along with motor repair, or different skilled or unskilled work
- **Illiteracy** is the excellent condition of being unable to study or write. Illiteracy is first-rate trouble all through the world.
- **Lack of capital** can result in no longer having sufficient to cowl overhead charges, investment expansion possibilities, or launching a new product in the marketplace.

81. Answer: a

**Explanation:**

The correct answer is Finance Minister.

★ Key Points

- The **economic balance and Development Council (FSDC)** is an apex-stage frame constituted via the government of India
- **Subsequently, in 2010**, the then **Finance Minister of India**, Pranab Mukherjee, decided to install such a self-reliant frame coping with macro-prudential and economic regularities in the whole financial area of India.
- The idea to create such an extraordinary regulatory frame became first mooted by means of the Raghuram Rajan Committee in 2008. Ultimately in 2010
- Union Minister for Finance & Company Affairs Smt. Nirmala Sitharaman chaired the twenty-sixth meeting of the monetary balance and Development Council (FSDC) **on September 15, 2022**.

★ Additional Information

- The Union Minister for **Human aid development**, **Dr. Ramesh Pokhriyal 'Nishank'** lighted the lamp at an event to mark worldwide ladies' Day , **in New Delhi on March 06, 2020**.
- **From 26 May additionally 2014 to 30 May 2019**, the House Minister of India became Rajnath Singh of the Bharatiya Janata party

- The ministry is headed by Union Minister **Dharmendra Pradhan**.

82. Answer: d

**Explanation:**

The correct answer is Shashi Tharoor.

★ Key Points

- The exceptional Indian Novel is a satirical novel with the aid of Shashi Tharoor, which was first posted through Viking Press in **1989**.
- It's far a fictional painting that takes the story of the **Mahabharata**.
- The word "notable Indian novel" is an allusion to the long-standing concept of the "exceptional American Novel" and is likewise a pun, more or less translating "Mahabharata" (maha "exceptional"; Bharata "India").

★ Additional Information

- **Varun Gandhi** is an Indian flesh presser and a 3rd-time period member of Parliament for Lok Sabha from the Pilibhit constituency
- **Derek O'Brien** is an Indian flesh presser, television persona, and quiz master.
- **Arackaparambil Kurien Antony** is an Indian politician and legal professional who becomes the 23rd Defence Minister of India.

83. Answer: b

**Explanation:**

The correct answer is Both I and II.

★ Key Points

- **The Nagara fashion** of temple structure that became popular in northern India is known as Nagara.

- The Gupta Dynasty (3rd century CE to 543 CE) turned into the first documented purchaser of the Nagara fashion, which remained popular throughout northern India till Muslim conquests in the 13th century CE.
- The Pallavas started their rule in the 4th century A.D. Mahendravarman I (advent 571-630 ) became the first king of the Pallavas.
- The Pallavas laid the inspiration for the Dravidian structure.

★ Additional Information

- The Pallavas were the first to construct temples in the Dravida style.
- Kandariya Mahadev Temple in Madhya Pradesh is a conventional example of the Nagara-style temple architecture
- The actual term Dravidian turned into first hired by means of Robert A. Caldwell.

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84. Answer: a

**Explanation:**

The correct answer is horsts.

★ Key Points

- Block Mountain is a mountain located within the Sawback range in Alberta.
- The uplifted blocks are termed as horsts and the diminished blocks are known as graben.
- Block Mountains are created when huge regions are damaged and displaced vertically.

★ Additional Information

- A graben is a valley with an awesome escarpment on every aspect as a result of the displacement of a block of land downward.
- A slope is the upward thrust or fall of the land floor. It's far critical for the farmer or irrigator to identify the slopes of the land
- There are 3 styles of cone cells:

- Red-sensing cones (60 percent)
- Inexperienced-sensing cones (30 percent) and.
- Blue-sensing cones (10 percent)

85. Answer: c

### Explanation:

The correct answer is Rashtrakuta.

#### ★ Key Points

- Dantidurga (735 – 756) changed into the founding father of the Rashtrakutas dynasty.
- Dantidurga become a feudatory of the Badami Chalukyas and rose to power after defeating King Kirtivarman II in 753 CE.
- The Rashtrakuta Dynasty ruled elements of South India from the 8th to the 10th century CE.
- His capital was positioned inside the Gulbarga vicinity of Karnataka.

#### ★ Additional Information

- The Chalukya dynasty become established by way of Pulakeshin I in 543.
- Pulakeshin I took Vatapi (contemporary Badami in Bagalkot district, Karnataka) below his control and made it his capital.
- The Chola Empire become based using Vijayalaya.
- The Chera dynasty become founded by Udayan Cheralathan.

86. Answer: c

### Explanation:

The correct answer is Assam.



★ Key Points

- **Bagurumba** is a people dance in Assam that is performed via the Bodos.
- Additionally, it is practiced at some stage in Bwisagu, a Bodo festival within the **Vishuva Sankranti (mid-April)**.
- **Bardo Chham** is a folk dance that is done by a small community referred to as the Sherdukpens which lives in the West Kameng district of **Arunachal Pradesh**.

★ Additional Information

- **Gidda, also called Lakh Naach** , is a popular ladies' folks dance from Punjab.
- **Haryana folk dance-**
  - Dhamal dance.
  - Ghoomar.
  - Jhoomar.
- **Dollu Kunitha** is a traditional dance shape in Karnataka.

---

87. Answer: a

**Explanation:**

The correct answer is population density.

★ Key Points

- **Population density** is the variety of individuals present in step with unit location or extent at a given time.
- There are three forms of **population density** described in Human Geography.
- The wide variety of people dwelling within that unique region determines the **Population density**.

★ Additional Information

- The intercourse ratio for the whole global populace is about a hundred and one adult males to one hundred girls (2021 est.).
- **Population movements**

- Any shift or migration of a statistically great variety of individuals inhabiting a rustic, district, or location.
  - **Population increase** (PG) we discover the difference (subtract) between the initial populace and the populace at Time 1, then divide through the initial populace and multiply with the aid of one hundred.
- 

88. Answer: d

**Explanation:**

The correct answer is June.

★ Key Points

- **Ambubachi Mela** is considered one of the most important congregations in Japanese India.
- It's by far the maximum critical pageant of the **Kamakhya temple** and is widely known in the month of June every **12 months**.
- **The Ambubachi Mela** is widely known between **June 21 and June 25**.

★ Additional Information

- Ambubachi Mela is the birthday celebration of the yearly menstruation route of the **goddess Kamakhya**.
  - **Rongali Bihu Utsav** is the spring pageant of Assam celebrated with exceptional fervor.
  - **Bihu** is the essence of Assam and is widely known throughout the nation with notable zeal and exuberance.
- 

89. Answer: d

**Explanation:**

The correct answer is Pushyabhuti.

★ Key Points

Harshavardhana ( 606 A.D to 647 A.D. )

- **Harshavardhana** turned into born in 590 adverts to King Prabhakaravardhana of Sthaneshvara (Thanesar, Haryana).
- He belonged to the Pushyabhuti additionally called the **Vardhana dynasty**.
- **The Pushyabhuti dynasty also** known as the Vardhana dynasty dominated northern India at some point in the sixth and 7th centuries.
- Harshavardhana built a huge empire that extended from north & northwestern India to the Narmada in the South.
- His capital was **Kannauj**.
- King Harshavardhana's deeds were praised by the Chinese Buddhist traveler **Xuanzang** in his writings.
- **Banabhatta** was his court poet and he composed the **Harshacharita** which gives an account of Harsha's life and deeds.
- Harsha generously supported **Nalanda University** .
- Harsha died in 647 AD after ruling for **41 years**.

★ Additional Information

- **Babur** is the founding father of the Mughal Empire in India.
- **The Mauryan Empire's first chief** , Chandragupta Maurya, started out consolidating land as Alexander the excellent's electricity started to wane
- **Chandragupta** ☒ is considered to be the founder of the Gupta era which began together with his accession in **319 – 320 CE**.

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90. **Answer: a**

**Explanation:**

The correct answer is 1906.

★ Key Points

- The **All-India Muslim League (AIML)** was a political party mounted in **1906** in British India.
- The Muslim League became founded in **Dhaka, British India (now Bangladesh)**.
- Its original reason was to protect the political rights of Muslims in India.
- **Khwaja Salim Ullah** was the founding father of the Muslim league.

★ Additional Information

- **Aga Khan** became appointed the first honorary president of the Muslim League.
- **Muhammad Ali Jinnah** lead this motion after the Lahore resolution became exceeded by using All-India Muslim League, on March twenty-third, **1940**.
- The final session became held in **Karachi in 1943** and become presided over by **Muhammad Ali Jinnah**.

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91. Answer: b

Explanation:

The correct answer is sun

★ Key Points

- The sun is the primary source of energy .
- The energy that the Earth receives from the Sun is the **important cause of our changing weather**.
- Solar heat, or heat received by the Earth from the Sun, **warms up vast masses of air** , which are made up of large and small weather systems, as well as the **well-known day-night and summer-winter cycles** .

★ Additional Information

- The sun is a massive sphere of heated gases at **extremely high temperatures** , it is the principal source of energy that causes weather variations.
- The sun is a very long way away from us. Even so, the sun's energy is so vast that it is the source of all heat and light on Earth.

- The earth's surface, seas, and atmosphere **absorb and reflect energy**.
- 

## 92. Answer: b

### Explanation:

The correct answer is Madhya Pradesh

#### ★ Key Points

- HVJ, which stands for Hazira-Vijaipur-Jagdishpur, is India's first interstate gas pipeline.
- The project began in 1986, with the **establishment of GAIL Limited**, to feed gas to fertiliser facilities in the state of Uttar Pradesh.
- The HVJ pipeline network, with **a capacity of 18.2 MMSCMD**, was built to carry the gas to fertiliser, power, LPG, and petrochemical industries, as well as other industrial users in Gujarat, Madhya Pradesh, Rajasthan, Uttar Pradesh, Haryana, and Delhi.

#### ★ Additional Information

- The Hazira-Vijaipur-Jagdishpur pipeline (HVJ) is a 1700 km long gas pipeline.
  - It is significant for India since it connects Mumbai and Bassein to Western and Northern India.
  - This pipeline serves as a commercial artery, supplying electricity to fertiliser companies and other businesses.
- 

## 93. Answer: d

### Explanation:

The correct answer is Platyhelminthes

#### ★ Key Points

- **Platyhelminthes**, sometimes known as flatworms, are a phylum of very basic bilaterian, unsegmented, soft-bodied invertebrates.
- The body has a **delicate coating** that may or may not have cilia.
- Their bodies are **flattened, with no segmentation, and they resemble leaves**.
- They **lack the anus and circulatory systems** but have a mouth.

★ Additional Information

- **Annelids**, often known as ringed worms or segmented worms, are a vast phylum that includes **ragworms, earthworms, and leeches**. They breathe through simple diffusion through the body's surface.
- **The Porifera** is a unique organism made up of a massive single cell with numerous nuclei.
- **Coelenterata** is a term encompassing the animal phylum Cnidaria. They have very simple tissue organization, with only **two layers of cells, and radial symmetry**.

---

94. Answer: b

**Explanation:**

The correct answer is Vallam Kali

★ Key Points

- **Vallam kali** is a traditional **Kerala boat racing**. It is a type of canoe racing in which paddled battle boats are used.
- It is mostly held **during the Onam harvest festival** season in the spring.
- **Vallam kali** races comprise a variety of paddled longboats and snake boats.
- Vallam Kali also commemorates **Lord Krishna bringing a boat to the famed Ambalapuzha temple**.

★ Additional Information

- **Mallakhamb** is an Indian subcontinental traditional sport in which a gymnast executes aerial yoga or gymnastic poses with a vertical stationary or

suspended wooden pole, cane, or rope.

- **Field hockey is a team sport with 10 outfield players and a goalkeeper** that follows the normal hockey format. The games are held on grass, wet turf, and artificial turf.
  - **Kho Kho** is a traditional Indian activity that dates back to ancient India and is one of the oldest outdoor games.
- 

95. **Answer: a**

### Explanation:

The correct answer is Judicial review

#### ★ Key Points

- **Judicial review is** the ability of a country's courts to analyse the activities of the **legislative, executive, and administrative branches of government** .
- It determines whether such actions are in accordance with the constitution or not.

#### ★ Additional Information

- **Judicial activism** is a method of exercising court review or a description of a **specific judicial decision** in which a judge is often seen to be more inclined to rule on constitutional grounds and invalidate legislative or executive measures.
  - **Public interest litigation (PIL)** is defined as litigation conducted to **protect the public interest** and illustrate the availability of justice to socially disadvantaged parties
  - **Dispute resolution** is the process of settling a disagreement or conflict between two or more parties. Importantly, conflict resolution.
- 

96. **Answer: a**

## Explanation:

The correct answer is Ravi Kumar Dahiya

### ★ Key Points

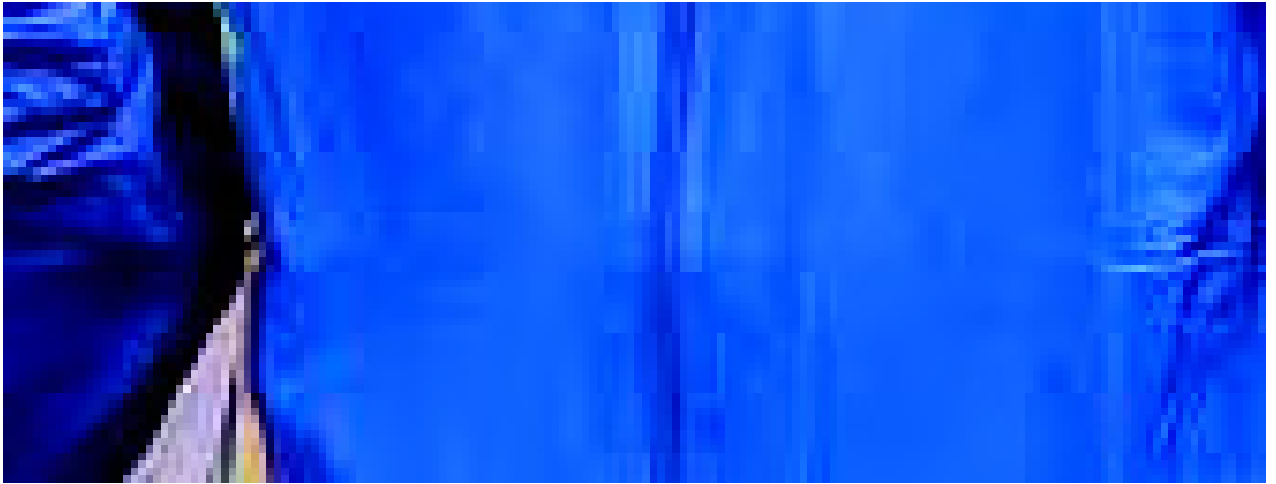
- **Ravi Kumar's Dahiya**, commonly known as Ravi Kumar or Ravi Dahiya, is an Indian freestyle wrestler/
- He earned a silver medal in the **57 kg event at the 2020 Tokyo Olympics**.
- Dahiya is also a **three-time Asian champion and a bronze medalist** at the 2019 World Wrestling Championships.

Prepp

Your Personal Exams Guide







★ Additional Information

- **Bajrang Punia** is a freestyle wrestler from India who participates in the 65-kg weight class. Punia was **awarded a bronze medal**.
- **Lovlina Borgohain**, an Indian boxer, in the **2020 Tokyo Olympics women's weightlifting** championship won a bronze medal
- **Pusarla Venkata Sindhu** is an Indian badminton player who earned **a bronze medal in the women's welterweight category at the 2020 Olympic Games**. Sindhu is regarded as one of India's most successful athletes, having won gold at numerous competitions.

97. Answer: c

## Your Personal Exams Guide

**Explanation:**

The correct answer is **Bhagwant Mann**

★ Key Points

- **Bhagwant Singh Mann** is the current Chief Minister of Punjab in India
- He is the **Punjab cabinet minister and a member of the Aam Aadmi Party**.
- On 20 February 2022, elections for the 117 members of the **16th Assembly of the Punjab Legislative Assembly** were conducted in Punjab through which he gained a majority,

★ Additional Information

- **Navjot Singh Sidhu** is a politician from the Indian National Congress and a former international cricketer. He was the **President of the Punjab Pradesh Congress Committee**. He formerly served as the **State of Punjab's Minister of Tourism and Cultural Affairs**.
- **Arvind Kejriwal** is an Indian politician, former bureaucrat, and activist who has served as **Delhi's seventh and current Chief Minister since February 2015**.
- **Captain Amarinder Singh**, is an Indian politician, military historian, and former royal and Indian Army veteran who served as the **15th Chief Minister of Punjab**.

98. Answer: b

Explanation:

The correct answer is Ozone

★ Key Points

- **Ozone** is an inorganic molecule having the formula  $O_3$ .
- It is a pale **blue gas with an unpleasant odour**.
- The ozone layer works as a **protective covering for life** on Earth. Ozone is effective in trapping ultraviolet radiation, or **UV light, which may penetrate organisms' protective layers**, such as skin, damaging DNA molecules in plants and animals.

★ Additional Information

- **Carbon monoxide** is a colourless, highly toxic, odourless, tasteless, combustible gas. Carbon monoxide is made up of one carbon atom and one oxygen atom linked together by a triple bond.
- Oxygen is a **colourless, odourless reactive gas** that is essential for life.
- **Carbon dioxide (CO<sub>2</sub>)** is an important heat-trapping gas, or greenhouse gas, that comes from the extraction and burning of **fossil fuels (such as coal, oil, and natural gas), wildfires, and natural processes** like volcanic eruptions.

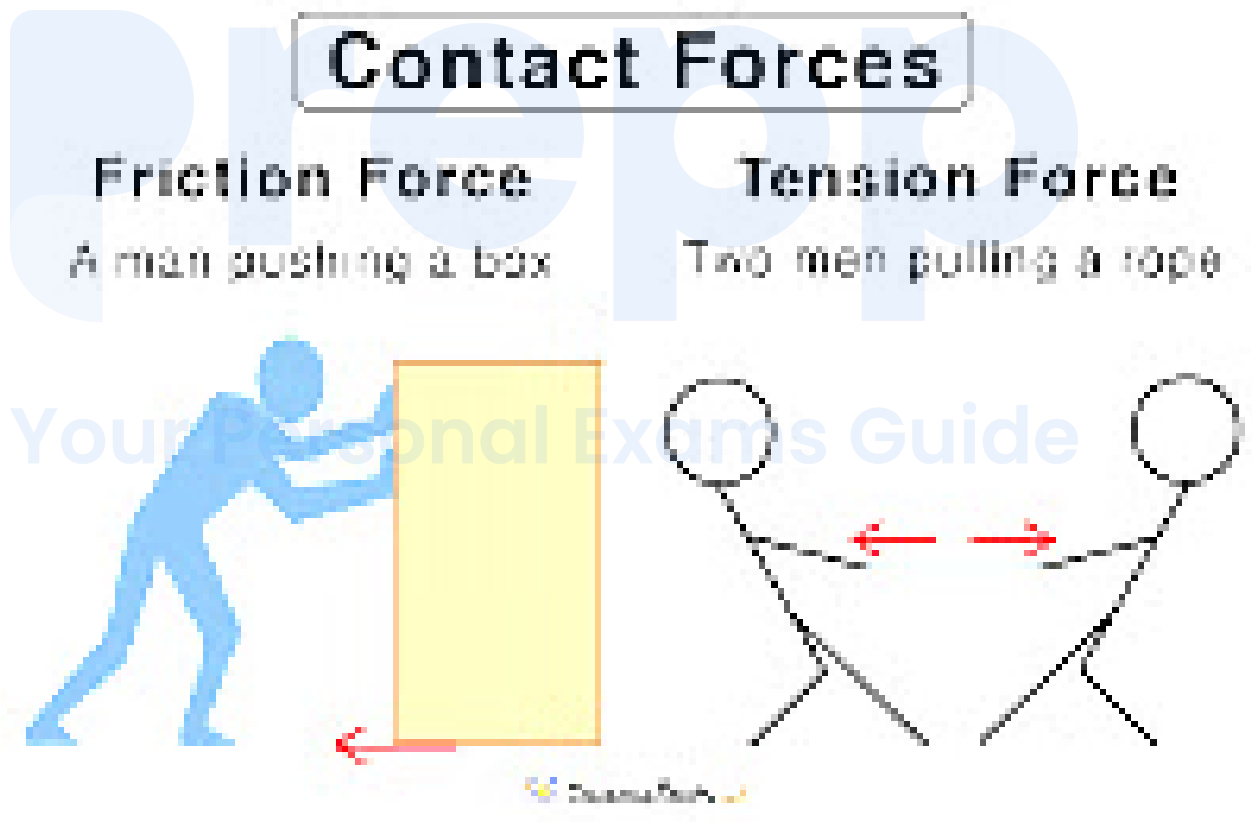
99. Answer: b

**Explanation:**

The correct answer is Muscular force

★ Key Points

- **Contact force** is the force exerted by objects in contact with one another.
- This force can be either continuous as a continuous force or temporary as an impulse.
- **Muscular force** is a form of contact force and is defined as any force applied by employing muscles such as the arms or legs.



★ Additional Information

- The force of attraction **between any two bodies** is proportional to the product of their masses and inversely proportional to the square of their distance is **the**

gravitational force

- **Magnetic force** is a consequence of electromagnetic force and is caused **due to the motion of charges**.
  - The **electrostatic force** is an attractive as well as repulsive force caused by the **electric charge particles**.
- 

100. Answer: d

### Explanation:

The correct answer is Mohiniyattam

#### ★ Key Points

- **Kalamandalam Kallyanikutty Amma** was a legendary Mohiniyattam dancer from Kerala, India.
- She was a native of **Thirunavaya in the Malappuram** region of Kerala, and she was key in raising Mohiniyattam from obscurity to mainstream Indian classical dance by giving it **formal structure and adornment**.
- **Mohiniyattam** is an Indian classical dance form that developed and remained popular in the **state of Kerala**.

Your Personal Exams Guide



★ Additional Information

- **The Manipuri Dance** , commonly known as the **Manipuri Raas Leela** , is one of the eight primary Indian classical dance styles that originated in **Manipur** .
- **Kuchipudi** is one of India's eight major classical dances. It is called after the hamlet of Kuchipudi in the Indian state of **Andhra Pradesh**. Kuchipudi is a dance-drama performance that originated in India
- **Odissi, also known as Orissi** in ancient literature, is a significant ancient Indian classical dance that evolved in the temples of Odisha, India's easternmost coastal state.