

# 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



UP TET



IBPS RRB



IBPS CLERK



IES



UPSC CAPF



SSC Stenogr..



RRB NTPC



SSC GD



RBI GRADE B



RBI Assistant



DSSSB

# SSC MTS Previous Year Paper (Held on: 10 Oct 2017 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 English	25	25	0.25	1
2	General Intelligence & Reasoning	25	25	0.25	1
3	Numerical Aptitude	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 English

1. In the following question, some part of the sentence may have errors. Find out which part of the sentence has an error and select the appropriate option. If a sentence is free from error, select 'No Error'. (+1, -0.25)

These are super-interesting activities (1)/keep your little one engaged, (2)/thrilled and off TV. (3)/No Error (4)

- a. 4
- b. 1
- c. 3
- d. 2

2. In the following question, some part of the sentence may have errors. Find out which part of the sentence has an error and select the appropriate option. If a sentence is free from error, select 'No Error'. (+1, -0.25)

Since they got something (1)/different each month, (2)/they keep coming back to it. (3)/No Error (4)

- a. 1
- b. 2
- c. 3
- d. 4

3. In the following question, the sentence given with blank to be filled in with an appropriate word. Select the correct alternative out of the four and indicate it by selecting the appropriate option. (+1, -0.25)

They look like \_\_\_\_\_.

- a. Ours
  - b. We
  - c. Our
  - d. Us
- 

4. In the following question, the sentence given with blank to be filled in with an appropriate word. Select the correct alternative out of the four and indicate it by selecting the appropriate option. (+1, -0.25)

Both Sushant \_\_\_\_\_ Rohit are handsome.

- a. As well as
  - b. And
  - c. Or
  - d. Neither
- 

5. In the following question, out of the given four alternatives, select the one which best expresses the meaning of the given word. (+1, -0.25)

Subside

- a. Descend
- b. Enlarge
- c. Prolong
- d. Oblong

6. In the following question, out of the given four alternatives, select the one which best expresses the meaning of the given word. **(+1, -0.25)**

Invade

- a. Abuse
- b. Ravage
- c. Trash
- d. Shred

7. In the following question, out of the given four alternatives, select the one which best expresses the meaning of the given word. **(+1, -0.25)**

Steady

- a. Vulnerable
- b. Flexible
- c. Abiding
- d. Wobbly

8. In the following question, out of the given four alternatives, select the one which is opposite in meaning of the given word. **(+1, -0.25)**

Immaculate

- a. Clean
- b. Pure

- c. Foul
  - d. Bright
- 

9. In the following question, out of the given four alternatives, select the one which is opposite in meaning of the given word. (+1, -0.25)

Impute

- a. Defend
  - b. Accuse
  - c. Assign
  - d. Blame
- 

10. In the following question, out of the given four alternatives, select the one which is opposite in meaning of the given word. (+1, -0.25)

Forsake

- a. Desert
  - b. Forgo
  - c. Give up
  - d. Revert
- 

11. In the following question, out of the four given alternatives, select the alternative which best expresses the meaning of the Idiom/Phrase. (+1, -0.25)

To doctor the accounts

---

- a. Very costly treatment
  - b. To manipulate the accounts
  - c. High class treatment
  - d. Auditing of accounts
- 

12. In the following question, out of the four given alternatives, select the alternative which best expresses the meaning of the Idiom/Phrase. (+1, -0.25)

On the brink of disaster

- a. Something still in hand
  - b. Natural destruction
  - c. To die
  - d. Very close to failure
- 

13. Improve the bracketed part of the sentence. (+1, -0.25)

Nothing (shows) the ineptness of the state more than unpreparedness in the face of predictable events.

- a. shows off
  - b. shows in
  - c. shows up
  - d. No improvement
-

14. Improve the bracketed part of the sentence.

(+1, -0.25)

Prohibitory orders (will not) enforced with the government evidently viewing the looming protests as pressure relief valves instead of as trigger points for violence.

- a. were not
- b. willingly
- c. were be
- d. No improvement

15. In the following question, out of the four given alternatives, select the alternative which is the best substitute of the phrase.

(+1, -0.25)

A place where arms are kept.

- a. Auditory
- b. Armoury
- c. Apiary
- d. Actuary

16. In the following question, out of the four given alternatives, select the alternative which is the best substitute of the phrase.

(+1, -0.25)

A medical examination of a dead body.

- a. Premortem
- b. Postmortem



- c. Prenatal
  - d. Postnatal
- 

17. In the following question, a word has been written in four different ways out of which only one is correctly spelt. Select the correctly spelt word. (+1, -0.25)

- a. Aight
  - b. Eihght
  - c. Eaight
  - d. Eighth
- 

18. In the following question, a word has been written in four different ways out of which only one is correctly spelt. Select the correctly spelt word. (+1, -0.25)

- a. Grammar
  - b. Grammer
  - c. Grammured
  - d. Grammor
- 

19. Rearrange the parts of the sentence in correct order. (+1, -0.25)

If you shun responsibility

P: accept slavery in

Q: some way or other

R: you have to

- a. PQR
  - b. RQP
  - c. QPR
  - d. RPQ
- 

20. Rearrange the parts of the sentence in correct order. (+1, -0.25)

Digital India programme

P: government of India to make this

Q: is a big step taken by the

R: country a digitally empowered country

- a. QPR
- b. RPQ
- c. PQR
- d. RQP

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21. In the following passage some of the words have been left out. Read the passage carefully and select the correct answer for the given blank out of the four alternatives. (+1, -0.25)

Today, when India is \_\_\_\_\_, these officials representing all government departments are very close to the most corrupt businessmen who are too \_\_\_\_\_ to let any opportunity of amassing profits \_\_\_\_\_. This collusion broadens the base of the vicious circle and corruption spreads 'like wild fire to \_\_\_\_\_ the entire society. The political and social guardians depend only too much on the richer communities and they look

indulgently on while these communities hold the entire society and the government to \_\_\_\_\_.

Today, when India is \_\_\_\_\_,

- a. Bound
- b. Restricted
- c. Chained
- d. Free

---

22. In the following passage some of the words have been left out. Read the passage carefully and select the correct answer for the given blank out of the four alternatives. (+1, -0.25)

Today, when India is \_\_\_\_\_, these officials representing all government departments are very close to the most corrupt businessmen who are too \_\_\_\_\_ to let any opportunity of amassing profits \_\_\_\_\_. This collusion broadens the base of the vicious circle and corruption spreads 'like wild fire to \_\_\_\_\_ the entire society. The political and social guardians depend only too much on the richer communities and they look indulgently on while these communities hold the entire society and the government to \_\_\_\_\_.

who are too \_\_\_\_\_ to let any opportunity

- a. Trustworthy
- b. Principal
- c. Unscrupulous
- d. Ethical

23. In the following passage some of the words have been left out. Read the passage carefully and select the correct answer for the given blank out of the four alternatives. (+1, -0.25)

Today, when India is \_\_\_\_\_, these officials representing all government departments are very close to the most corrupt businessmen who are too \_\_\_\_\_ to let any opportunity of amassing profits \_\_\_\_\_. This collusion broadens the base of the vicious circle and corruption spreads 'like wild fire to \_\_\_\_\_ the entire society. The political and social guardians depend only too much on the richer communities and they look indulgently on while these communities hold the entire society and the government to \_\_\_\_\_.

of amassing profits \_\_\_\_\_.

- a. Slip
- b. Surges
- c. Inflates
- d. Rises

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24. In the following passage some of the words have been left out. Read the passage carefully and select the correct answer for the given blank out of the four alternatives. (+1, -0.25)

Today, when India is \_\_\_\_\_, these officials representing all government departments are very close to the most corrupt businessmen who are too \_\_\_\_\_ to let any opportunity of amassing profits \_\_\_\_\_. This collusion broadens the base of the vicious circle and corruption spreads 'like wild fire to \_\_\_\_\_ the entire society. The political and social guardians depend only too much on the richer communities and they look indulgently on while these communities hold the entire society and the government to \_\_\_\_\_.

'like wild fire to \_\_\_\_\_ the entire society.

- a. Complete
- b. Deteriorate
- c. Finish
- d. Engulf

25. In the following passage some of the words have been left out. Read the passage carefully and select the correct answer for the given blank out of the four alternatives. (+1, -0.25)

Today, when India is \_\_\_\_\_, these officials representing all government departments are very close to the most corrupt businessmen who are too \_\_\_\_\_ to let any opportunity of amassing profits \_\_\_\_\_. This collusion broadens the base of the vicious circle and corruption spreads 'like wild fire to \_\_\_\_\_ the entire society. The political and social guardians depend only too much on the richer communities and they look indulgently on while these communities hold the entire society and the government to \_\_\_\_\_.

society and the government to \_\_\_\_\_.

- a. Restrain
- b. Detain
- c. Restrict
- d. Ransom

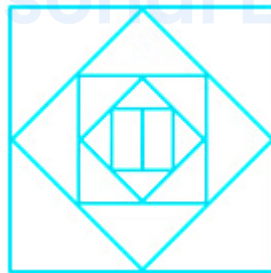
## General Intelligence & Reasoning

26. In the following question, select the number which can be placed at the sign of question mark(?) from the given alternatives. (+1, -0.25)

10	8	5
1	2	6
5	3	4
55	30	?

- a. 33
- b. 44
- c. 66
- d. 55

27. How many quadrilaterals are there in the given figure? (+1, -0.25)



- a. 6
- b. 7
- c. 8
- d. 9

28. A word is represented by only one set of numbers as given in any one of the alternatives. The sets of numbers given in the alternatives are represented by two classes of alphabets as shown in the given two matrices. The columns and rows of matrix-I are numbered from 0 to 4 and that of Matrix-II are numbered from 5 to 9. A letter from these matrices can be represented first by its row and next by its column, for example, 'W' can be represented by 30, 95, etc., and 'P' can be represented by 13, 89, etc. similarly, you have to identify the set for the word "CROWN".

(+1,  
-0.25)

Matrix - I						Matrix - II					
	0	1	2	3	4		5	6	7	8	9
0	Z	M	V	B	C	5	R	N	P	Z	T
1	L	T	B	P	F	6	G	A	F	B	D
2	K	N	O	M	U	7	O	I	A	K	S
3	W	D	F	G	V	8	L	O	H	R	P
4	C	L	K	V	B	9	W	S	U	I	J

- a. 40, 57, 76, 95, 56
- b. 04, 55, 75, 32, 22
- c. 04, 55, 86, 95, 21

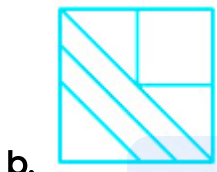
d. 40, 88, 75, 31, 57

29. From the given answer figures, select the one in which the question figure is hidden/embedded. (+1, -0.25)



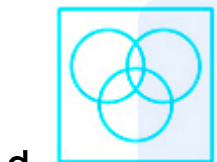
30. Which answer figure will complete the pattern in the question figure? (+1, -0.25)



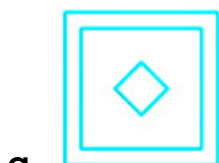


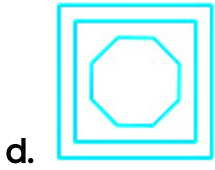
31. A piece of paper is folded and cut as shown below in the question figures. (+1, -0.25)  
From the given answer figures, indicate how it will appear when opened?





32. A piece of paper is folded and cut as shown below in the question figures. (+1, -0.25)  
From the given answer figures, indicate how it will appear when opened?





33. If 'L' means 'x', 'N' means '+', 'O' means '÷' and 'P' means '-', then  $15\ L\ 4\ N\ 6\ O\ 3 = ?$  (+1, -0.25)

- a. 32
- b. 74
- c. 50
- d. 62

34. If  $9\ \#\ 4\ \#\ 1 = 419$  and  $9\ \#\ 1\ \#\ 6 = 169$ , then  $5\ \#\ 3\ \#\ 1 = ?$  (+1, -0.25)

- a. 315
- b. 153
- c. 351
- d. 135

35. Arrange the given words in the sequence in which they occur in the dictionary. (+1, -0.25)

- 1. Fight
- 2. Fifth
- 3. Fifty
- 4. Frank
- 5. Faith
  
- a. 54123
- b. 53124
- c. 52314
- d. 54321

---

36. In the following question, select the missing number from the given series. (+1, -0.25)

11, 12, 16, 25, 41, ?

- a. 61
- b. 66
- c. 64
- d. 68

---

37. A series is given with one term missing. Select the correct alternative from the given ones that will complete the series. (+1, -0.25)

AC, DF, GI, ?

- a. JK

- b. JL
  - c. JM
  - d. KL
- 

38. In the following question, select the odd word from the given alternatives. (+1, -0.25)

- a. Arrow
  - b. Knife
  - c. Gun
  - d. Soldier
- 

39. In the following question, select the odd number pair from the given alternatives. (+1, -0.25)

- a. 13 - 172
  - b. 15 - 228
  - c. 16 - 259
  - d. 17 - 282
- 

40. In the following question, select the odd letters from the given alternatives. (+1, -0.25)

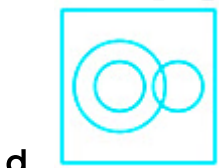
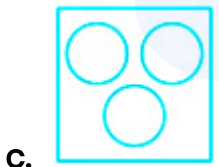
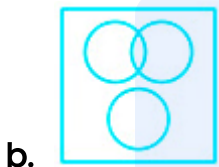
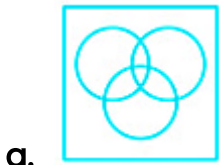
- a. ACEG
- b. KMOQ

c. SUWY

d. GILN

41. Identify the diagram that best represents the relationship among the given classes. (+1, -0.25)

Pencil, Graphite, Ink



42. In the following question, select the related word from the given alternatives. (+1, -0.25)

Force : Newton :: Area : ?

a. Hertz

- b. Volume
  - c. Metre
  - d. Hectare
- 

43. In the following question, select the related number from the given alternatives. (+1, -0.25)

29 : 59 :: 76 : ?

- a. 147
  - b. 151
  - c. 153
  - d. 149
- 

44. In the following question, select the related letters from the given alternatives. (+1, -0.25)

SN : VR :: AJ : ?

- a. CN
  - b. DN
  - c. CM
  - d. DM
- 

45. In the following question, select the word which cannot be formed using the letters of the given word. (+1, -0.25)

BROADCASTING

- a. STAR
  - b. CAPS
  - c. GRAND
  - d. BROAD
- 

46. Ankit is 5 times as heavy as Suraj. Suraj is one third the weight of Imran. Imran is  $\frac{4}{3}$  times as heavy as Shrey. Shrey is half the weight of Gagan. Who is the lightest? (+1, -0.25)

- a. Imran
  - b. Shrey
  - c. Suraj
  - d. Suraj or Shrey
- 

47. The ratio of present ages of R and S is 5 : 7, 5 years ago R was 30 years old. What was the age (in years) of S 10 years ago? (+1, -0.25)

- a. 39
  - b. 32
  - c. 49
  - d. 42
-



48. In the following question below are given some statements followed by some conclusions. Taking the given statements to be true even if they seem to be at variance from commonly known facts, read all the conclusions and then decide which of the given conclusion logically follows the given statements. (+1, -0.25)

**Statements:**

All oranges are sweet.

Some sweet are round.

**Conclusions:**

I. Some oranges are round.

II. No oranges are round.

a. Only conclusion (I) follows.

b. Only conclusion (II) follows.

c. Both conclusions follow.

d. either conclusion (I) or conclusion (II) follows.

---

49. In a certain code language, "ARMS" is written as "BQNR". How is "BELT" written in that code language? (+1, -0.25)

a. CDMS

b. CDKS

c. AFMS

d. CFMU

50. In a certain code language, "AGO" is written as "26" and "SUN" is written as "57". How is "CRY" written in that code language? **(+1, -0.25)**
- a. 47
  - b. 48
  - c. 49
  - d. 50

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## Numerical Aptitude

51. A number when divided by 36 leaves remainder 25. What is the remainder when the same number is divided by 6? (+1, -0.25)

- a. 0
- b. 1
- c. 2
- d. 3

52. If 2785P3 is divisible by 11, then what will be the digit in place of P? (+1, -0.25)

- a. 2
- b. 5
- c. 8
- d. 6

53. What is the value of  $\sqrt[3]{(340 + \sqrt{9})}$ ? (+1, -0.25)

- a. 9
- b. 7
- c. 5
- d. 19

54. What is the least number multiplied to 200, so that number obtained becomes multiple of 60? (+1, -0.25)
- a. 5
  - b. 15
  - c. 3
  - d. 8
- 

55. What is the value of  $26 \times 34$  ? (+1, -0.25)
- a. 904
  - b. 896
  - c. 908
  - d. 884
- 

56. How many zeroes are there in product  $4^6 \times 15^{10}$  ? (+1, -0.25)
- a. 10
  - b. 12
  - c. 11
  - d. 6
- 

57. A can do a piece of work in 20 days. He worked for 5 days and B finished the remaining work in 42 days. B alone can do the whole work in how (+1, -0.25)

many days?

- a. 56
  - b. 52
  - c. 46
  - d. 64
- 

58. Three taps A, B and C can fill the tank in 40, 48 and 60 hours respectively. (+1, -0.25)  
How long (in hours) would the three taps take to fill the tank if all of them are opened together?

- a. 12
  - b. 16
  - c. 10
  - d. 8
- 

59. If the ratio of edges of two cubes is 4 : 9, then what is the ratio of the (+1, -0.25)  
volume of the two cubes?

- a. 64 : 729
  - b. 16 : 81
  - c. 4 : 9
  - d. 2 : 3
-

60. The marked price of a chair is Rs. 900 and a discount of 10% is given. What is the selling price (in Rs)? **(+1, -0.25)**

- a. 810
- b. 890
- c. 900
- d. 870

61. The marked price of an article is Rs. 550 and a customer pays Rs. 495 for it. What is the discount percentage? **(+1, -0.25)**

- a. 10%
- b. 12%
- c. 15%
- d. 8%

62. If  $(\frac{2}{3})P = (\frac{4}{5})Q = (\frac{3}{2})R$ , then what is P : Q : R? **(+1, -0.25)**

- a. 18 : 15 : 8
- b. 15 : 8 : 18
- c. 2 : 4 : 3
- d. 3 : 5 : 2

63. If  $3A = 4B = 12C$ , then what is A : B : C? **(+1, -0.25)**

- a. 4 : 3 : 1
  - b. 4 : 3 : 2
  - c. 3 : 4 : 12
  - d. 12 : 4 : 3
- 

64. The mean of 20 numbers is 35. If four numbers 24, 20, 21 and 27 are removed, then what will be the mean of remaining numbers? (+1, -0.25)

- a. 38
  - b. 40
  - c. 33
  - d. 37
- 

65. If an article is sold at 5% profit instead of 8% loss, the man gains Rs. 260 more. What is the cost price (in Rs) of the article? (+1, -0.25)

- a. 1800
  - b. 2000
  - c. 1500
  - d. 1400
- 

66. If the profit is 10%, then what will be the ratio of cost price to selling price respectively? (+1, -0.25)

- a. 10 : 9

- b. 10 : 11
  - c. 10 : 13
  - d. 4 : 5
- 

67. If the price of a commodity is decreased by 20% and its consumption is increased by 30%, then what will be the percentage increase or decrease in the expenditure of the commodity? (+1, -0.25)

- a. 10% decrease
  - b. 10% increase
  - c. 4% increase
  - d. 4% decrease
- 

68. If the price of a commodity is decreased by 30% and its consumption is increased by 30%, then what will be the percentage increase or decrease in the expenditure of the commodity? (+1, -0.25)

- a. 9% decrease
  - b. 9% increase
  - c. 11% increase
  - d. 11% decrease
- 

69. The speed of a boat along with the current and against the current is 16 km/hr and 12 km/hr respectively. What is the speed of the boat (in km/hr) in still water? (+1, -0.25)



- a. 2 km/hr
  - b. 7 km/hr
  - c. 14 km/hr
  - d. 12 km/hr
- 

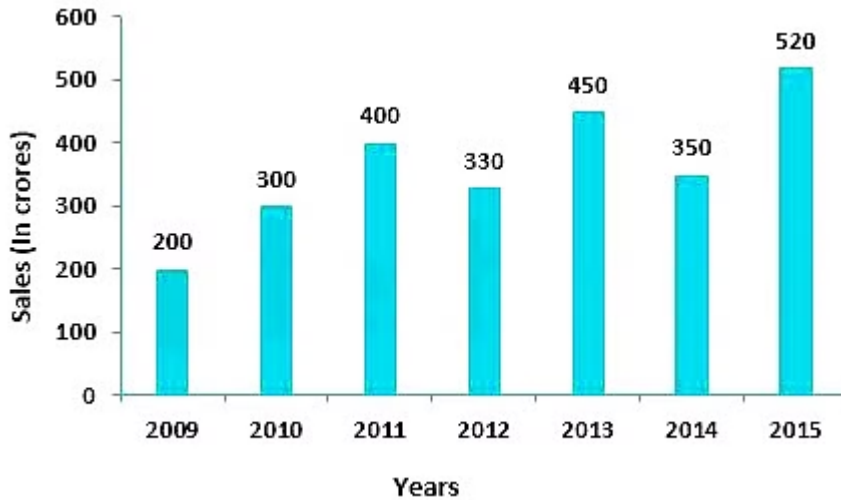
70. A man travels 3 hours of the journey at a speed of 100 km/hr and remaining 2 hours of the journey at 120 km/hr. What is the average speed (in km/hr) of the entire journey? (+1, -0.25)

- a. 105 km/hr
  - b. 110 km/hr
  - c. 108 km/hr
  - d. 107 km/hr
- 

71. An amount invested in simple interest gives Rs 4200 interest at a rate of 15% in 4 years. What is the principal (in Rs)? (+1, -0.25)

- a. 7000
  - b. 6000
  - c. 8000
  - d. 9000
- 

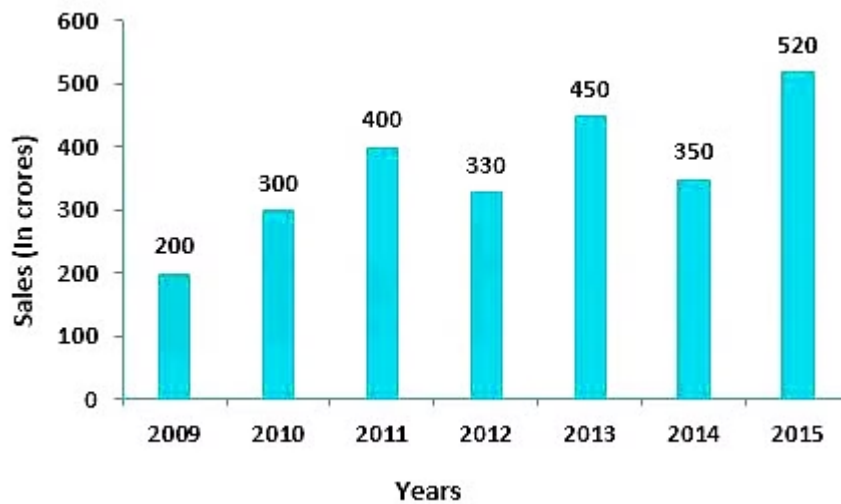
72. **Directions:** The bar chart given below shows the sales (in crores) of company P from years 2009 to 2015. (+1, -0.25)



What is the percentage change in sales from year 2010 to 2014?

- a. 75
- b. 175
- c. 16.67
- d. 25

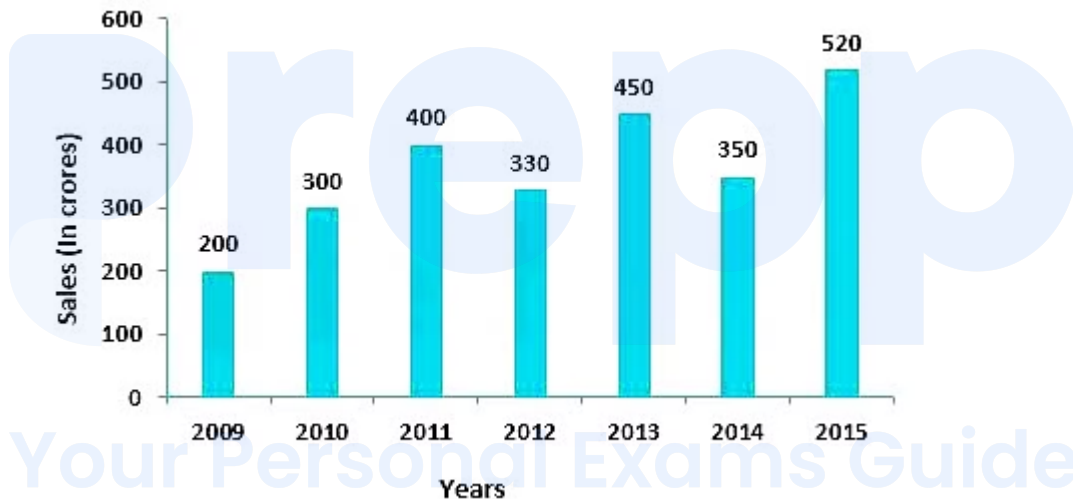
73. **Directions:** The bar chart given below shows the sales (in crores) of company P from years 2009 to 2015. (+1, -0.25)



What is the average sale (in crores) from year 2009 to 2013?

- a. 340
- b. 336
- c. 360
- d. 350

74. **Directions:** The bar chart given below shows the sales (in crores) of company P from years 2009 to 2015. (+1, -0.25)

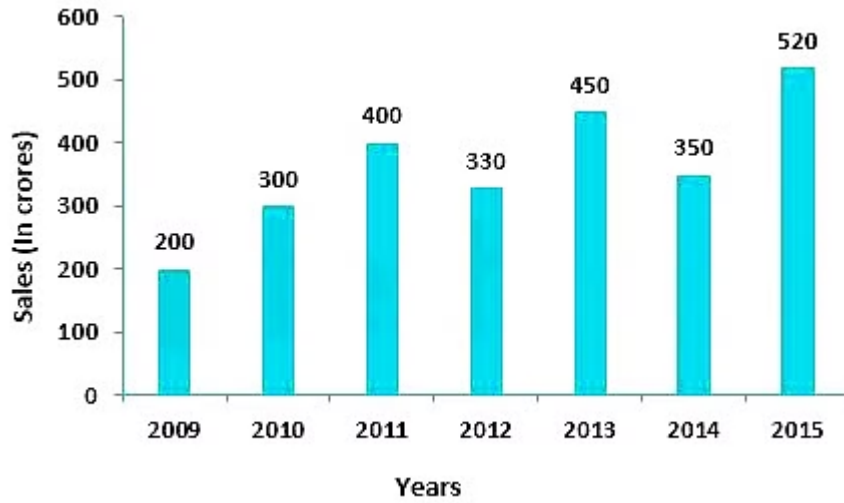


In how many years, the sale was more than that in year 2012?

- a. 2
- b. 3
- c. 4
- d. 5

75. **Directions:** The bar chart given below shows the sales (in crores) of company P from years 2009 to 2015.

(+1, -0.25)



What is the percentage change in the sales from year 2009 to 2013?

- a. 225
- b. 150
- c. 100
- d. 125

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## General Awareness

76. Average income is also called \_\_\_\_\_ . (+1, -0.25)

- a. Net National Income
  - b. Net National Product
  - c. Per-capita income
  - d. Total income
- 

77. Which among the following constitute money in the modern economy? (+1, -0.25)

- a. Only currency – paper notes and coins
  - b. Only demand deposits
  - c. Both currency – paper notes and coins and demand deposits
  - d. None of these
- 

78. What is the amount reduced by a token cut in case of a financial bill (in Rs)? (+1, -0.25)

- a. 1
  - b. 100
  - c. 150
  - d. 1000
-

79. A \_\_\_\_\_ government is a better government, because it is a more accountable form of government. (+1, -0.25)

- a. Democratic
- b. Monarchic
- c. Aristocratic
- d. Autocratic

80. In how many 'Varnas', people were divided in Ancient India? (+1, -0.25)

- a. 2
- b. 6
- c. 4
- d. 5

81. The government complex in New Delhi consisted of a two-mile avenue which is now known as present-day 'Rajpath', It was earlier known as \_\_\_\_\_ (+1, -0.25)

- a. Durbar
- b. Civil Lines
- c. Kingsway
- d. Bylane

82. The movement of the Earth around the Sun in a fixed path or orbit is called a \_\_\_\_\_ . (+1, -0.25)

- a. Revolution
- b. Rotation
- c. Translation
- d. Illumination

83. What is the duration of hot weather season (summer) in India? (+1, -0.25)

- a. March to May
- b. October and November
- c. December to February
- d. June to September

84. About 70% of a human body's energy requirements should be met by \_\_\_\_\_ . (+1, -0.25)

- a. Amino acids
- b. Fats
- c. Lipids
- d. Carbohydrates

85. Gastric digestion takes place efficiently in \_\_\_\_\_ . (+1, -0.25)

- a. Acidic medium
  - b. Basic medium
  - c. Neutral medium
  - d. None of these
- 

86. Rh factor is named after a species of \_\_\_\_\_ . (+1, -0.25)

- a. Rat
  - b. Monkey
  - c. Whale
  - d. Snake
- 

87. The meter that measures the speed of the vehicle is called \_\_\_\_\_ . (+1, -0.25)

- a. Speedometer
  - b. Odometer
  - c. Chronometer
  - d. Barometer
- 

88. The image formed by a plane mirror is always \_\_\_\_\_ . (+1, -0.25)

- a. Inverted
- b. Virtual & Erect



- c. Tilted
  - d. Bent
- 

89. Where is the taskbar placed in Microsoft Windows in the default settings? (+1, -0.25)

- a. At the top of the screen
  - b. At the bottom of the screen
  - c. At the center of the screen
  - d. At no place on the screen
- 

90. The formula for Potassium Permanganate is ----- (+1, -0.25)

- a.  $\text{KMnO}_4$
  - b.  $\text{KMn}_2\text{O}_4$
  - c.  $\text{K}_2\text{Mn}_2\text{O}_4$
  - d.  $\text{K}_2\text{Mn}_2\text{O}_2$
- 

91. The elements in the middle of the periodic table are called ----- (+1, -0.25)

- a. Metalloids
- b. Transition elements
- c. Rare earth element
- d. Noble gases

92. A series of organisms feeding on one another at various biotic levels form ( +1, -0.25)  
a. \_\_\_\_\_.
- a. Food chain
  - b. Food cycle
  - c. Food web
  - d. Food level
- 

93. Which organization had helped in the development of Digital Gender Atlas for Girls Education in India? ( +1, -0.25)
- a. UNICEF
  - b. WTO
  - c. WHO
  - d. NATO
- 

94. Who invented the lightning conductor? ( +1, -0.25)
- a. Edward Priestly
  - b. Vint Cerf
  - c. Benjamin Franklin
  - d. John Dalton
- 

95. Who is popularly called the 'Payyoli Express'? ( +1, -0.25)
-

- a. AnjuBoby George
  - b. P. T. Usha
  - c. Jhulan Goswami
  - d. Deepa Malik
- 

96. Which is the most important work of the 'Hinayana school'? (+1, -0.25)

- a. Panchatantra
  - b. Mahavastu
  - c. Ashtadhyayi
  - d. ZendAvesta
- 

97. Who is the first Indian women leader to have been honored with the "Social Entrepreneur of the year" award at the 7<sup>th</sup> Asian Awards in London? (+1, -0.25)

- a. Asha Bhosle
  - b. Paul Sagoo
  - c. Nisha Dutt
  - d. Neeta Ambani
- 

98. Who is the author of the book named "Prison Diary"? (+1, -0.25)

- a. J. P. Narayan

- b. Harbhajan Singh
  - c. Javed Akhtar
  - d. Amitav Ghosh
- 

99. India became the \_\_\_\_\_ full member of Missile Technology Control Regime (MTCR). (+1, -0.25)

- a. 35<sup>th</sup>
  - b. 1<sup>st</sup>
  - c. 20<sup>th</sup>
  - d. 8<sup>th</sup>
- 

100. India and \_\_\_\_\_ have set a joint working group on fisheries to address long-standing issues of fishermen from Tamil Nadu. (+1, -0.25)

- a. Pakistan
- b. Maldives
- c. Bangladesh
- d. Sri-Lanka

## Answers

### 1. Answer: d

#### Explanation:

The error lies in part 2 of the sentence as the determiner 'which' is missing before the verb 'keep.' Without any determiner the sentence is incorrect.

---

### 2. Answer: a

#### Explanation:

The correct answer is option 1.

*Since the main verb of the sentence 'keep coming' is in the present tense, the verb in the subordinate clause must follow suit.*

Thus, 'got' should be replaced by 'get'. The suggested action is in the **present continuous tense** due to the presence of the phrase 'something different each month'

---

### 3. Answer: d

#### Explanation:

The correct pronoun here is 'us' which is used by a speaker to refer to himself or herself and one or more other people as the object of a verb or preposition. The other prepositions are incorrect here.

---

### 4. Answer: b

**Explanation:**

The correct conjunction to fit here is 'and' as the word 'both' is used with 'and.'

---

**5. Answer: a**

**Explanation:**

The meanings of the words are:

Subside=> become less intense, violent, or severe

Descend=> move or fall downwards

Enlarge=> to make bigger

Oblong=> a rectangular object or flat figure with unequal adjacent sides

Thus option 1 is the correct answer.

---

**6. Answer: b**

**Explanation:**

The meanings of the words are:

Invade=> enter by force

Abuse=> misuse

Ravage=> cause severe and extensive damage to

Trash=> waste material

Shred=> scrap or strip

Your Personal Exams Guide

Thus option 2 is the correct answer.

---

**7. Answer: c**

**Explanation:**

The meanings of the words are:

Steady=> stable

Vulnerable=> exposed to the possibility of being attacked or harmed, either physically or emotionally

Flexible=> not rigid

Abiding=> enduring

Wobbly=> unsteady

Thus option 3 is the correct answer.

---

**8. Answer: c**

**Explanation:**

The word 'immaculate' means 'clean.' Thus the word 'foul' which means 'dirty' is the correct antonym.

---

**9. Answer: a**

**Explanation:**

The meanings of the words are:

Impute=> attribute

Defend=> resist an attack made on (someone or something); protect from harm or danger

Accuse=> charge (someone) with an offence or crime

Assign=> allocate a job or duty

Blame=> accuse

Thus option 1 is the correct answer.

---

**10. Answer: d**

**Explanation:**

The meanings of the words are:

Forsake=> abandon

Desert=> abandon

Forgo=> go without (something desirable)

Revert=> return to (a previous state, practice, topic, etc.)

Thus option 4 is the correct antonym.

---

**11. Answer: b**

**Explanation:**

The idiom 'to doctor the accounts' means 'to manipulate the accounts.' Thus option 2 is the correct answer.

---



12. Answer: d

**Explanation:**

The idiom 'on the brink of disaster' means 'very close to failure.' Thus option 4 is the correct answer.

---

13. Answer: d

**Explanation:**

The correct answer is **option 2**

The sentence does not need an improvement.

---

14. Answer: a

**Explanation:**

The only option that fits here grammatically is option 1. 'Be' cannot be used with 'were'.

---

15. Answer: b

**Explanation:**

The meanings of the words are:

Auditory=> relating to the sense of hearing

Armoury=> a place where weapons are kept

Apiary=> a place where bees are kept

Actuary=> a person who compiles and analyses statistics and uses them to calculate insurance risks and premiums

Thus option 2 is the correct answer.

---

**16. Answer: b**

**Explanation:**

The meanings of the words are:

Premortem=> a managerial strategy in which a project team imagines that a project or organization has failed, and then works backward to determine what potentially could lead to the failure of the project or organization

Postmortem=> an examination of a dead body to determine the cause of death

Prenatal=> before birth

Postnatal=> relating to or denoting the period after childbirth

Thus option 2 is the correct answer.

---

**17. Answer: d**

**Explanation:**

The correct word is 'eighth' which means 'constituting number eight in a sequence.'

---

**18. Answer: a**

**Explanation:**

The correct word is 'grammar' which means 'rules of language.' Thus option 1 is the correct answer.

---

19. **Answer: d**

**Explanation:**

R is the first statement as the other options do not fit here. P follows R as it has the verb 'accept' mentioned in it. Q fits correctly after the preposition 'in.' Thus option 4 is the correct answer.

---

20. **Answer: a**

**Explanation:**

Q is the first statement as it has 'is' mentioned in it. P follows Q as it states by whom the step has been taken. R follows P as it states the aim of the government. Thus option 1 is the correct answer.

---

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21. **Answer: d**

**Explanation:**

The correct word here is 'free' as India is free now. The other words do not convey any meaning here.

---

22. **Answer: c**

**Explanation:**

The sentence portrays a negative side of the officials so the word 'ethical' is incorrect here. The correct word here is 'unscrupulous' which means 'unprincipled.' The other words too fail to convey any meaning here.

---

23. **Answer: a**

**Explanation:**

The sentence conveys a negative picture of the people so the word that fits here is 'slip'. It conveys the meaning that these people do not let any opportunity miss. The word 'inflates' means 'blown up' and does not fit here. The word 'surges' means 'gushes' and does not convey any meaning here.

---

24. **Answer: d**

**Explanation:**

The word that conveys a meaning is 'engulf' which means '(of a natural force) sweep over (something) so as to surround or cover it completely.' The other words do not fit here. The word 'deteriorate' means 'become progressively worse.'

---

25. **Answer: d**

**Explanation:**

The word 'restrain' means 'prevent' and does not fit here. The word 'detain' means 'delay' and does not convey any meaning here. The word 'ransom' means 'obtain the release of (a captive) by paying a money.' Thus option 4 is the correct answer.

---

26. **Answer: b**

**Explanation:**

The pattern followed here is,

$$\rightarrow (10 + 1) \times 5 = 55$$

$$\rightarrow (8 + 2) \times 3 = 30$$

Similarly,

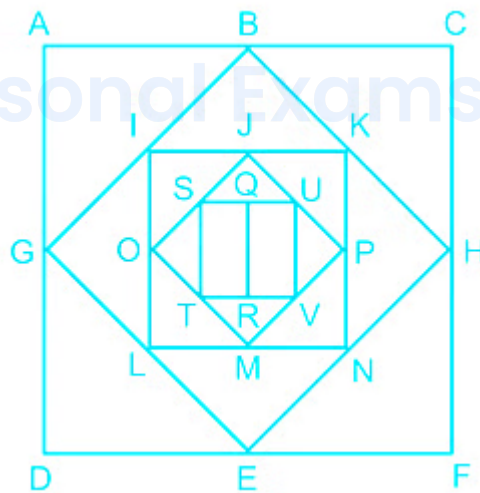
$$\rightarrow (5 + 6) \times 4 = \mathbf{44}$$

Hence, the missing number is 44.

**27. Answer: b**

**Explanation:**

**Quadrilateral:** A quadrilateral is a polygon with four edges and four vertices or corners.



Quadrilaterals: ADCF, BGEH, IKLN, JOMP, QRST, QUVW, STUV.

28. Answer: c

Explanation:

1) 40, 57, 76, 95, 56 → C, P, I, W, N.

2) 04, 55, 75, 32, 22 → C, R, O, F, O.

3) 04, 55, 86, 95, 21 → **C, R, O, W, N**.

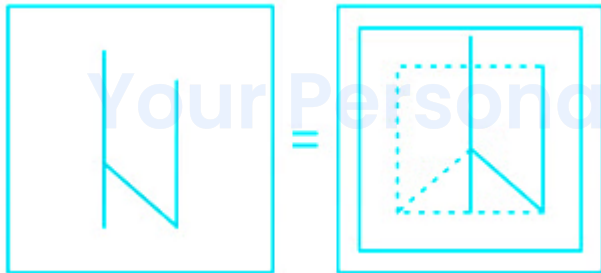
4) 40, 88, 75, 31, 57 → C, R, O, D, P.

Hence, 'CROWN' will be represented by '04, 55, 86, 95, 21'.

29. Answer: b

Explanation:

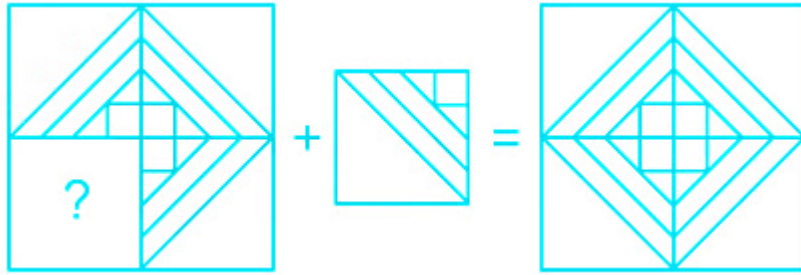
The given figure is hidden in,



Hence, answer is option 2.

30. Answer: a

Explanation:



Option 1 will complete the incomplete image.

Hence, answer is option 1.

**31. Answer: b**

**Explanation:**

In the unfolded figure a circle will be there in the centre and the shape of paper will be become like a hexagon.



Hence, answer is option 2.

**32. Answer: b**

**Explanation:**

In the unfolded figure a circle will be there in the centre and the shape of paper will become like a hexagon.



Hence, the answer is option 2.

---

33. Answer: d

Explanation:

Letter	L	N	O	P
Meaning	$\times$	$+$	$\div$	$-$

Given equation:  $15\ L\ 4\ N\ 6\ O\ 3 = ?$

On replacing letters:  $15 \times 4 + 6 \div 3 = ?$

$\rightarrow 15 \times 4 + 2 = 62$

Hence, answer is 62.

---

34. Answer: a

Explanation:

Here, 1<sup>st</sup> digit is written at 3<sup>rd</sup> position, 2<sup>nd</sup> digit is written at 1<sup>st</sup> position and 3<sup>rd</sup> digit is written at 2<sup>nd</sup> position.

So, 5 # 3 # 1 will be written as 315.

Hence, answer is 315.

---

35. Answer: c



### Explanation:

Sequence as per dictionary,

5. Faith

2. Fif th

3. Fif ty

1. Fight

4. Frank

Hence, the correct sequence is '52314'.

---

### 36. Answer: b

### Explanation:

The logic followed in the series is as follows,

$$11 + (1)^2 \rightarrow 12 + (2)^2 \rightarrow 16 + (3)^2 \rightarrow 25 + (4)^2 \rightarrow 41 + (5)^2 \rightarrow 66$$

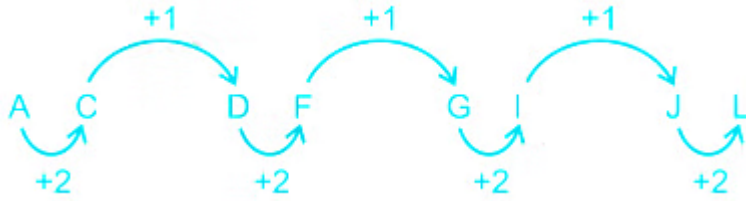
Hence, the next number in the series will be 66.

---

### 37. Answer: b

### Explanation:

The pattern followed in the series is,



Hence, the next term in the series will be JL.

38. Answer: d

**Explanation:**

Arrow, Knife and Gun are the tools, while Soldier is a person.

Hence, the odd word is 'Soldier'.

39. Answer: d

**Explanation:**

The pattern followed here is,

1)  $13 - 172 \rightarrow (13)^2 + 3 = 172$

2)  $15 - 228 \rightarrow (15)^2 + 3 = 228$

3)  $16 - 259 \rightarrow (16)^2 + 3 = 259$

4)  $17 - 282 \rightarrow (17)^2 - 7 = 282$

Hence, the odd number is 282.

40. Answer: d

**Explanation:**

The pattern followed here is,

1) ACEG:  $A + 2 \rightarrow C + 2 \rightarrow E + 2 \rightarrow G$

2) KMOQ:  $K + 2 \rightarrow M + 2 \rightarrow O + 2 \rightarrow Q$

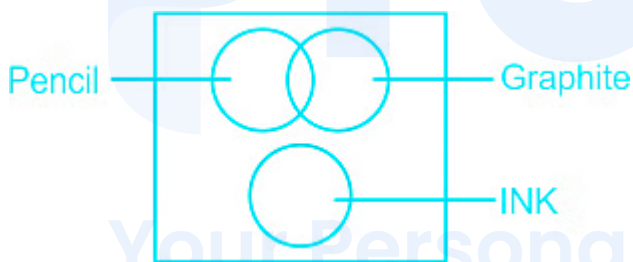
3) SUWY:  $S + 2 \rightarrow U + 2 \rightarrow W + 2 \rightarrow Y$

4) GILN:  $G + 2 \rightarrow I + 3 \rightarrow L + 2 \rightarrow N$

Hence, the wrong term is 'GILN'.

**41. Answer: b**

**Explanation:**



Hence, the answer is option 2.

**42. Answer: d**

**Explanation:**

As Force is measured in Newton, so Area is measured in Hectare.

Hence, answer is Hectare.

43. Answer: c

**Explanation:**

Pattern followed here is,

$$29 \times 2 + 1 = 59$$

Similarly,

$$76 \times 2 + 1 = 153$$

Hence, answer 153.

---

44. Answer: b

**Explanation:**

The pattern followed here is,

$$S + 3 \rightarrow V, N + 4 \rightarrow R$$

Similarly,

$$A + 3 \rightarrow D, J + 4 \rightarrow N$$

Hence, answer will be DN.

---

45. Answer: b

**Explanation:**

1) STAR → B RODC **AST** ING → can be formed.

2) CAPS → BROADCASTING → cannot be formed as there is no letter P.

3) GRAND → B RO DC ASTI NG → can be formed.

4) BROAD → BROD CA STING → can be formed.

Hence, CAPS cannot be formed.

---

**46. Answer: c**

**Explanation:**

Weight of Ankit =  $5 \times$  Suraj (kg)

Weight of Suraj = Imran/3 (kg)

Weight of Imran = Shreya  $\times$  4/3 (kg)

Weight of Shreya = Gagan/2 (kg)

Let the weight of Gagan is 10 kg,

So, Weight of Shreya = 5 kg,

Weight Imran = 6.67 kg,

Weight of Suraj = **2.22 kg**,

Weight of Ankit = 11.1 kg.

Hence, Suraj is the lightest among all.

---

**47. Answer: a**

**Explanation:**

Present age ratio of R and S = 5 : 7

Let, the present age of R and S is 5x years and 7x years respectively.

5 years ago R was 30 years old (given)

$$\rightarrow 5x - 5 = 30$$

$$\rightarrow x = 7$$

Age of S 10 years ago =  $7x - 10$

$$\rightarrow 7 \times 7 - 10 = 39 \text{ years}$$

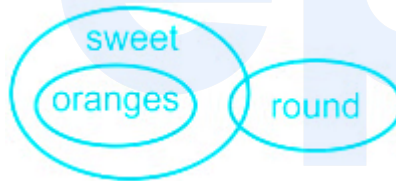
Hence, age of S 10 years ago will be 39 years.

---

**48. Answer: d**

**Explanation:**

The least possible Venn Diagram for the given statements will be as follows,



I. Some oranges are round  $\rightarrow$  not follows.

II. No oranges are round.  $\rightarrow$  not follows.

Hence, either conclusion I or II follows.

---

**49. Answer: a**

**Explanation:**

ARMS has been coded as follows,



Similarly,



Hence, 'BELT' will be coded as 'CDMS'.

**50. Answer: c**

**Explanation:**

Given words has been coded as follow,

$$\text{AGO} \rightarrow (1 + 7 + 15) + 3 \rightarrow 26$$

$$\text{SUN} \rightarrow (19 + 21 + 14) + 3 \rightarrow 57$$

Similarly, **Your Personal Exams Guide**

$$\text{CRY} \rightarrow (3 + 18 + 25) + 3 \rightarrow \mathbf{49}$$

Hence, CRY will be code as '49'.

**51. Answer: b**

**Explanation:**

⇒ Let the number be x, then we have  $x = 36k + 25$ , where  $k = 0, 1, 2, 3, \dots$

⇒ Now remainder when x is divided by 6, will be  $(36k + 25) / 6$

⇒ Here, 36 is multiple of 6, therefore will leave 0 remainder. Whereas 25 when divided by 6 will leave remainder 1

∴ Overall remainder is 1

---

**52. Answer: b**

**Explanation:**

**Given:**

2785P3 is divisible by 11.

**Concept:**

As per the divisibility rule of 11

The difference of the sum of the digits at odd places and sum of the digits at even places must be 0 or multiple of 11

**Calculation:**

$$\Rightarrow (7 + 5 + 3) - (2 + 8 + p) = 0, 11, 22$$

$$\Rightarrow (15) - (10 + p) = 0 \text{ [since 11, 22... are not possible]}$$

$$\Rightarrow 15 - 10 - p = 0$$

$$\therefore p = 5$$

---

**53. Answer: b**

**Explanation:**



$$\begin{aligned} &\Rightarrow \sqrt[3]{(340 + \sqrt{9})} \\ &\Rightarrow \sqrt[3]{(340 + 3)} \\ &\Rightarrow \sqrt[3]{343} \\ \therefore \sqrt[3]{(343 + \sqrt{9})} &= 7 \end{aligned}$$

---

54. Answer: c

**Explanation:**

⇒ To solve this first we find the LCM of 200 and 60

⇒ LCM of 200 and 60 is 600

∴ it is clear that we have to multiply 200 by 3

---

55. Answer: d

**Explanation:**

⇒  $26 \times 34$

⇒  $(30 - 4)(30 + 4)$

⇒  $(30)^2 - 4^2$

⇒ From formula  $x^2 - y^2 = (x + y)(x - y)$

⇒  $900 - 16$

∴  $26 \times 34 = 884$

---

56. Answer: a

**Explanation:**

$$\Rightarrow 4^6 \times 15^{10}$$

$$\Rightarrow (2^2)^6 \times (5 \times 3)^{10}$$

$$\Rightarrow 2^{12} \times 5^{10} \times 3^{10}$$

$$\Rightarrow (2 \times 5)^{10} \times 2^2 \times 3^{10}$$

$\Rightarrow$  We know that wherever 2 is multiplied by 5 we get one zero,

$\Rightarrow$  And we cannot get any zero when 2 is multiplied by 3

$\therefore$  it is clear from the above that the number of zeroes will be 10

**57. Answer: a**

**Explanation:**

$$\Rightarrow \text{A's 1 day work} = 1 / 20$$

$$\Rightarrow \text{A worked for 5 days}$$

$$\Rightarrow \text{Then, A's 5 days' work} = (1 / 20) \times 5 = 1 / 4$$

$$\Rightarrow \text{Remaining work} = 1 - 1 / 4 = 3 / 4$$

$$\Rightarrow \text{Now, B finished } 3/4 \text{ of the work in 42 days}$$

$$\therefore \text{Whole work done by B alone} = 42 \times 4 / 3 = 56 \text{ days}$$

**58. Answer: b**

**Explanation:**

$$\Rightarrow \text{Tap A can fill in 40 hours}$$

$$\Rightarrow \text{Tap A's 1 hour work} = 1 / 40 \quad \text{----1}$$

⇒ Tap B can fill in 48 hours

⇒ Tap B's 1 hour work =  $1 / 48$  -----2

⇒ Tap C can fill in 60 hours

⇒ Tap C's 1 hour work =  $1 / 60$  -----3

⇒ Now Tap A, B and C's 1 hours work =  $1/40 + 1/48 + 1/60$

⇒ Tap A, B and C's 1 hours work =  $(6 + 5 + 4)/240$

⇒ Tap A, B and C's 1 hours' work =  $1/16$

∴ A, B and C can fill the tank together in 16 hours

59. Answer: a

Explanation:

Given:

The ratio of edges of two cubes is 4 : 9

Formula used:

Volume of cube =  $a^3$  where  $a \rightarrow$  side of cube

Calculation:

Let the edges of two cubes be  $4x$  and  $9x$

Volume of 1<sup>st</sup> cube =  $(4x)^3 = 64x^3$

Volume of 2<sup>nd</sup> cube =  $(9x)^3 = 729x^3$

Ratio of volume of two cubes = Volume of 1st cube / Volume of 2<sup>nd</sup> cube

⇒  $64x^3 / 729x^3$

$\therefore$  Ratio of volume of two cubes = 64 : 729

---

60. Answer: a

**Explanation:**

$\Rightarrow$  Marked price of chair = Rs. 900

$\Rightarrow$  Discount = 10% (given)

$\Rightarrow$  Discount = 10% of 900 = Rs. 90

$\Rightarrow$  Selling price = Marked Price - Discount

$\therefore$  Selling price = 900 - 90 = Rs. 810

---

61. Answer: a

**Explanation:**

$\Rightarrow$  Marked price of article = Rs. 550

$\Rightarrow$  Selling price of article at which customer bought article = Rs. 495

$\Rightarrow$  Discount = Marked price - Selling price

$\Rightarrow$  Discount = 550 - 495 = Rs. 55

$\Rightarrow$  Discount % = (Discount / Marked price)  $\times$  100

$\Rightarrow$  Discount % = (55 / 550)  $\times$  100

$\therefore$  Discount % = 10

---

62. Answer: a

**Explanation:**

$$\Rightarrow \text{Let } (2/3)P = (4/5)Q = (3/2)R = k$$

$$\Rightarrow (2/3)P = k, (4/5)Q = k, (3/2)R = k$$

$$\Rightarrow P = 3k/2, Q = 5k/4, R = 2k/3$$

$$\Rightarrow P : Q : R = 3k/2 : 5k/4 : 2k/3$$

$$\Rightarrow \text{LCM } (2, 4, 3) = 12$$

$$\Rightarrow P : Q : R = (3k/2) \times 12 : (5k/4) \times 12 : (2k/3) \times 12$$

$$\Rightarrow P : Q : R = 18k : 15k : 8k$$

$$\therefore P : Q : R = 18 : 15 : 8$$

---

**63. Answer: a**

**Explanation:**

$$\Rightarrow \text{Let } 3A = 4B = 12C = k$$

$$\Rightarrow 3A = k, 4B = k, 12C = k$$

$$\Rightarrow A = k/3, B = k/4, C = k/12$$

$$\Rightarrow A : B : C = k/3 : k/4 : k/12$$

$$\Rightarrow \text{LCM } (3, 4, 12) = 12$$

$$\Rightarrow A : B : C = (k/3) \times 12 : (k/4) \times 12 : (k/12) \times 12$$

$$\therefore A : B : C = 4 : 3 : 1$$

---

**64. Answer: a**

**Explanation:**

⇒ Mean of 20 numbers = 35

⇒ Sum of 20 numbers =  $20 \times 35 = 700$

⇒ Sum of numbers removed =  $(24 + 20 + 21 + 27) = 92$

⇒ Sum of remaining 16 numbers =  $700 - 92 = 608$

⇒ New mean = New Sum / New Total Number

⇒ New mean =  $608 / 16$

∴ Mean of remaining numbers is 38

---

**65. Answer: b**

**Explanation:**

⇒ Let Cost Price (C.P) of article be Rs.  $100x$

⇒ Selling Price (S.P) of article at 5% profit =  $100x + 5\% \text{ of } 100x = 105x$

⇒ S.P of article at 8% loss =  $100x - 8\% \text{ of } 100x = 92x$

⇒ Profit = Rs. 260

⇒ Profit = S.P at 5% profit - S.P at 8% loss

⇒ Profit =  $105x - 92x = 13x$

⇒  $13x = 260$

⇒  $x = 20$

∴ C.P of article =  $100x = 100 \times 20 = \text{Rs. } 2000$

66. Answer: b

**Explanation:**

- ⇒ Profit = 10% (given)
- ⇒ Let Cost Price be 100
- ⇒ Selling Price at 10% profit = 110
- ⇒ Ratio of Cost Price to Selling Price = 100 / 110
- ∴ Ratio of cost price to selling price = 10 : 11

67. Answer: c

**Explanation:**

- ⇒ Let the original price of commodity be x
- ⇒ let the original amount consumed be y
- ⇒ Original expenditure = xy
- ⇒ Price decreased by 20%
- ⇒ New Price = x - 20% of x
- ⇒ New Price = x - 0.20x = 0.80x
- ⇒ Consumption increased by 30%
- ⇒ New amount consumed = y + 30% of y
- ⇒ New amount consumed = y + 0.30y = 1.30y
- ⇒ New expenditure = 0.80x x 1.30y

⇒ New expenditure =  $1.04xy$

⇒ Percentage change =  $[(1.04xy - xy) / xy] \times 100$

⇒ Percentage change =  $0.04 \times 100$

∴ Percentage change = 4% increase

---

**68. Answer: a**

**Explanation:**

⇒ Let the original price of commodity be  $x$

⇒ let the original amount consumed be  $y$

⇒ Original expenditure =  $xy$

⇒ Price decreased by 30%

⇒ New Price =  $x - 30\% \text{ of } x = x - 0.30x = 0.70x$

⇒ Consumption increased by 30%

⇒ New amount consumed =  $y + 30\% \text{ of } y = y + 0.30y = 1.30y$

⇒ New expenditure =  $0.70x \times 1.30y$

⇒ New expenditure =  $0.91xy$

⇒ Percentage change =  $[(xy - 0.91xy) / xy] \times 100$

⇒ Percentage change =  $0.09 \times 100$

∴ Percentage change = 9% decrease

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**69. Answer: c**



**Explanation:**

Let the speed of boat in still water be  $u$  and speed of current be  $v$

⇒ Speed of boat along the stream =  $u + v = 16$  km/hr

⇒ Speed of boat against the stream =  $u - v = 12$  km/hr

⇒ Speed of boat in still water =  $(1/2) \times (u + v + u - v) = (1/2) \times 28$

∴ Speed of boat in still water = 14 km/hr

---

**70. Answer: c**

**Explanation:**

⇒ Distance travelled in 3 hours =  $3 \times 100 = 300$  km

⇒ Distance travelled in remaining 2 hours =  $2 \times 120 = 240$  km

⇒ Average speed = Total distance/total time taken

⇒ Average speed =  $(300 + 240)/5 = 540/5$

∴ Average speed = 108 k/hr

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**71. Answer: a**

**Explanation:**

⇒ Interest = Rs. 4200, Rate = 15% and  $T = 4$  years, Let Principal be  $p$

⇒  $S.I = (P \times R \times T) / 100$ , where  $P$  is the principal,  $r$  is the rate of interest and  $t$  is the time period.

⇒  $4200 = (p \times 15 \times 4)/100$

$$\Rightarrow 4200 \times 100 = 60p$$

$$\Rightarrow p = (4200 \times 100)/60$$

$\therefore$  Principal = Rs. 7000

---

**72. Answer: c**

**Explanation:**

$\Rightarrow$  Sale of company P in 2010 = 300 crore

$\Rightarrow$  Sale of company P in 2014 = 350 crore

$\Rightarrow$  Difference in sale from 2010 to 2014 =  $350 - 300 = 50$

$\Rightarrow$  Percentage Changes =  $(50 / 300) \times 100$

$\therefore$  Percentage Changes = 16.67%

---

**73. Answer: b**

**Explanation:**

$\Rightarrow$  Sale of company P in 2009 = 200 crore

$\Rightarrow$  Sale of company P in 2010 = 300 crore

$\Rightarrow$  Sale of company P in 2011 = 400 crore

$\Rightarrow$  Sale of company P in 2012 = 330 crore

$\Rightarrow$  Sale of company P in 2013 = 450 crore

$\Rightarrow$  Total sale of P from year 2009 to 2013 =  $200 + 300 + 400 + 330 + 450 = 1680$

$\Rightarrow$  Average sale from year 2009 to 2013 =  $1680/5$

---

∴ Average sale from year 2009 to 2013 = 336 crore

---

**74. Answer: c**

**Explanation:**

⇒ from graph it is clear that in 2011, 2013, 2014, 2015 company P has more sales than that in 2012

∴ For 4 years, sales is more than that in year 2012

---

**75. Answer: d**

**Explanation:**

⇒ Sale of company P in 2009 = 200 crore

⇒ Sale of company P in 2013 = 450 crore

⇒ Difference in sales from 2009 to 2013 =  $450 - 200 = 250$

⇒ Percentage Changes =  $(250/200) \times 100$

∴ Percentage Changes = 125%

---

**76. Answer: c**

**Explanation:**

- **Per capita income** or average income measures the average income earned per person in the given area (city, region, country, etc.) in a specified year.
- It is calculated by dividing the area's total income by its total population.
- This is used to compare the wealth of the population of different regions.

77. Answer: c

**Explanation:**

- Money is a medium of exchange, a measure of value and a standard of deferred payments.
  - The most important function of money is that it acts as a medium of exchange.
  - Money is accepted freely in exchange for all other goods and services.
  - The money supply of a country consists of **currency (banknotes and coins) and demand deposits.**
- 

78. Answer: b

**Explanation:**

- The token cut is another way used in cut motions to reduce the amount of demand made in respect of the grant proposed for each Ministry.
  - A Token Cut motion is moved so that that the amount of the demand is reduced by **Rs.100.**
  - This is done to ventilate a specific grievance which is within the sphere of the responsibility of the Government of India.
  - The discussion thereon shall be confined to the particular grievance specified in the motion.
- 

79. Answer: a

**Explanation:**

- Democracy is a system of government in which power is vested in the people, who rule either directly or through freely elected representatives.

- **Democratic** government is responsible for all the decisions and policies and thus is also answerable to the common man.
  - Democracy enables an accountable and legitimate government. It ensures that people can choose their own leaders and put a check and balance on them.
- 

**80. Answer: c**

**Explanation:**

The correct answer is 4.

★ Key Points

- The Varna system in 'Dharma-Sastras' divides society into **four varnas (Brahmins, Kshatriyas, Vaishya, and Shudras)**.
  - **Brahmin is a varna in Hinduism specializing as priests, teachers (acharya) and protectors of sacred learning across generations**
  - Kshatriya, also spelled 'Ksatriya' varna is second highest in ritual status of the four varnas, traditionally the military or ruling class.
  - Vaishya varna was composed of people who worked in agriculture, trade, and commerce.
  - Shudra Varna was composed of people who worked in menial jobs and in service, including slaves.
- 

**81. Answer: c**

**Explanation:**

- 'Rajpath' (known as "**King's Way**") is a ceremonial boulevard in New Delhi, India, that runs from Rashtrapati Bhavan on Raisina Hill through Vijay Chowk and India Gate to National Stadium, Delhi.

- The avenue is lined on both sides by huge lawns, canals, and a row of trees. Considered to be one of the most important roads in India, it is where the annual Republic Day parade takes place on 26 January, every year.
- 

82. Answer: a

Explanation:

- The Earth revolves around the Sun once every 365.242199 mean solar days. This movement is called **Revolution**.
  - The Earth orbits the Sun at a speed of 108,000 km/h. Earth's perihelion (147,098,074 km) occurs around January 3, and the aphelion around July 4 (152,097,701 km).
- 

83. Answer: a

Explanation:

- The summer months are a period of exceedingly rising temperature and declining air pressure in the northern half of the country.
  - The months of **March, April and May** are the summer months in India.
  - Due to the northward movement of the sun, the global heat belt shifts northward. The 'loo', 'dust storms' and 'thunderstorms' are the most striking features of the summer season in India.
- 

84. Answer: d

Explanation:

The correct answer is Carbohydrates.

Concept:

- Food is our basic need.
- It nourishes our bodies and maintains our health.
- It gives us the energy that is required for every action.
- The various food items that we consume constitute our diet.
- Diet may be defined as the total amount of different variety of food items consumed by a person during a day.
- A healthy diet should consist of simple, natural and/or well-cooked foods which promote health and protect us from diseases.
- It should keep our organ systems well functioning.
- There is a delicate relationship between what we eat, how much we eat and what will happen to our health if we overeat or do not eat properly.

#### Explanation:

- The energy requirement is the amount of food energy that is needed for balancing energy expenditure in order to maintain body size, body composition and a level of necessary and desirable physical activity consistent with long-term good health.
- **The Dietary Guidelines recommends that carbohydrates should comprise 70% of total calories** and a limit on added sugars to no more than 10% of total calories for a healthy diet.

#### Carbohydrate :

- When we play, climb at an altitude, run, or work hard we need energy.
- This energy can be filled with taking glucose.
- Glucose is a type of carbohydrate by which we get energy instantly.
- Carbohydrate is the main source of energy and strength .
- it consists of carbon, hydrogen, and oxygen elements. These elements are stored in our body in the form of glycogen.
- It decomposes by the process of respiration and releases energy as needed.

#### ★ Additional Information

#### Proteins

- The protein is a Polypeptide bond which is a sequence of amino acids.

- The end product of protein digestion is amino acids.
- Proteins are digested and broken down into amino acids with the help of enzymes.
- Amino acids are very small, they are able to be absorbed through the small intestine lining and into your bloodstream.

#### Nucleic acids

- A nucleic acid is an organic compound such as DNA or RNA that is built of small units called nucleotides.
- Many nucleotides bind together to form a chain called a polynucleotide.
- The nucleic acid DNA (deoxyribonucleic acid) consists of two polynucleotide chains .
- The nucleic acid RNA (ribonucleic acid) consists of just one polynucleotide chain .
- The products of digestion of nucleic acid are pentose sugars, nitrogenous bases and phosphate ions.
- These products are transported by carriers across the villus epithelium and then enters into bloodstreams.

#### Lipids

- A lipid is an organic compound such as fat or oil .
- Organisms use lipids to store energy.
- Lipids consist of repeating units called fatty acids.
- The products of digestion of Lipids are Fatty acid and glycerol.

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#### 85. Answer: a

#### Explanation:

- Digestion is the breakdown of large insoluble food molecules into small water-soluble food molecules so that they can be absorbed into the watery blood plasma.
- Gastric juice in the stomach starts protein digestion. Gastric juice mainly contains hydrochloric acid and pepsin, thus gastric digestion takes place best



in acidic medium.

- **Acidic gastric juice**, exhibits enzymatic activities, pronounced antibacterial properties, and a capacity to denature cell structures.
- 

**86. Answer: b**

**Explanation:**

- Rh factor is an antigen, a substance which stimulates the production of antibodies to fight foreign invaders, such as viruses, bacteria, and transplanted organs.
  - Rh factor is also called "Rhesus factor" because it was first discovered in the blood of Rhesus **monkeys** (small monkeys from India often used for experimentation).
- 

**87. Answer: a**

**Explanation:**

- A **speedometer** or a speed meter is a gauge that measures and display the instantaneous speed of a vehicle.

★ Key Points

- Odometer or odograph: It is a device used to measure the distance travelled by the vehicle .
- Speedometer or speed meter: A device used by the vehicle to measure the speed of the vehicle
- Charles Babbage is credited with creating an early type of a speedometer, which was usually fitted to locomotives.
- The electric speedometer was invented by the Croatian Josip Belušić in 1888 and was originally called a velocimeter.

★ Additional Information

<u>Instrument</u>	<u>Use</u>
Ammeter	Measures the strength of the electric current.
Anemometer	Measures wind speed.
Barometer	Measures atmospheric pressure.
Bolometer	Measures heat radiations.
Crescograph	Measures growth in plants.
Calorimeter	Measures heat in chemical reactions.
Hydrometer	Measures the specific gravity of a liquid.
Hygrometer	Measures atmospheric humidity.
Lactometer	Measures the purity of milk.
Thermometer	Measures temperature.

88. Answer: b

**Explanation:**

- A plane mirror is a mirror with a flat reflective surface. For light rays striking a plane mirror, the angle of reflection equals the angle of incidence. Therefore, the angle of reflection is the angle between the reflected ray and the normal.
- The image formed by a plane mirror is always **virtual and erect** ( meaning that the light rays do not actually come from the image), upright, and of the same shape and size as the object, it is reflecting. A virtual image is a copy of an object formed at the location from which the light rays appear to come.

89. Answer: b

### Explanation:

- The default settings for the taskbar in Microsoft Windows place it **at the bottom of the screen** and includes from left to right the Start menu button, Quick Launch bar, taskbar buttons, and notification area.
- A taskbar is an element of a graphical user interface which has various purposes. It typically shows which programs are currently running.

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### 90. Answer: a

### Explanation:

- **Potassium Permanganate** is an inorganic chemical compound which has  $\text{KMnO}_4$  as its chemical formula.
- It is a salt consisting of  $\text{K}^+$  and  $\text{MnO}_4^-$  ions.
- It is a strong **oxidizing agent**.
- It is used as a medication for cleaning wounds and dermatitis.

---

### 91. Answer: b

### Explanation:

- In the periodic table of elements, there are seven horizontal rows of elements called periods. The vertical columns of elements are called groups, or families.
- The transition metals make up the middle block of the periodic table.
- The **transition elements or transition metals** occupy the short columns in the center of the periodic table, between Group 2A and Group 3A. They are sometimes called the *d*-block elements, since in this region the *d*-orbitals are being filled in, and are also referred to as B-group elements since in most numbering systems of the columns on the periodic table the numerals of these groups are followed by the letter B.

92. Answer: a

**Explanation:**

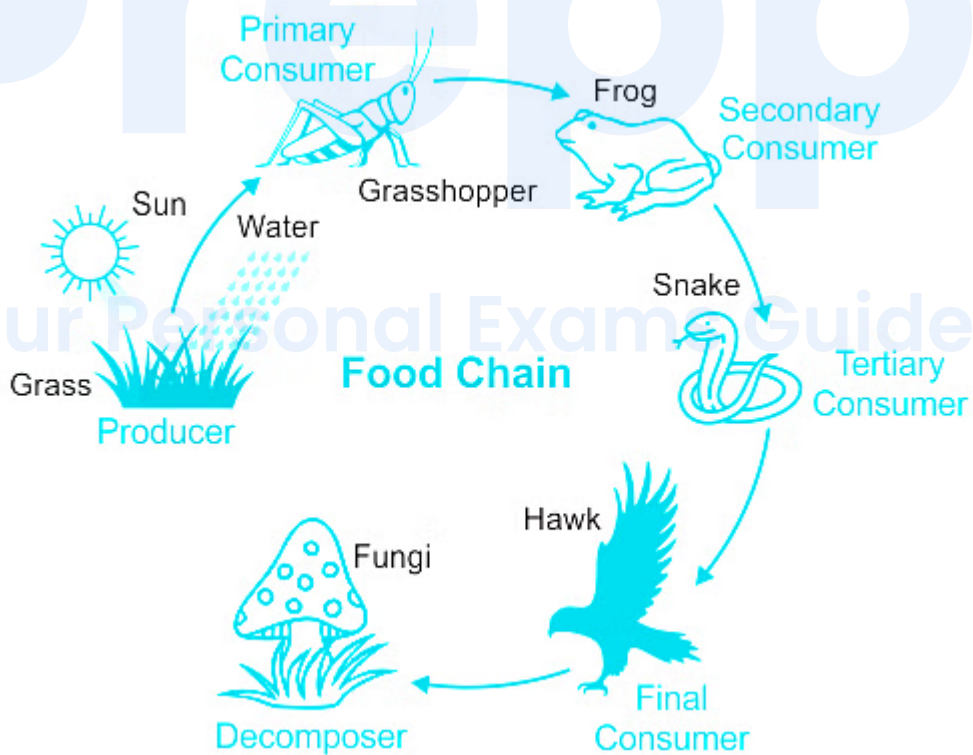
The correct answer is Food chain.

★ Key Points

Food chain:

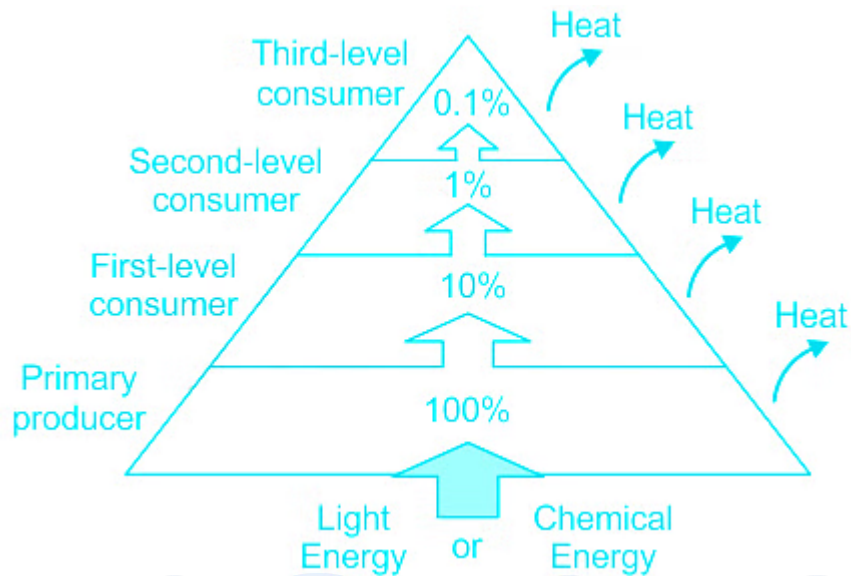
A food chain shows the feeding relationship between different organisms in a particular environment and/or habitat.

- A food chain shows how energy is passed from the sun to producers, from producers to consumers, and from consumers to decomposes such as fungi.
- They also show how animals depend on other organisms for food.



Only 10% of energy is transferred to higher levels from the previous one. So, the demand for food is more in higher levels. So, the food chain does not go for more

than 3-4 trophic levels. This leads to more complex food forms known as a food web.

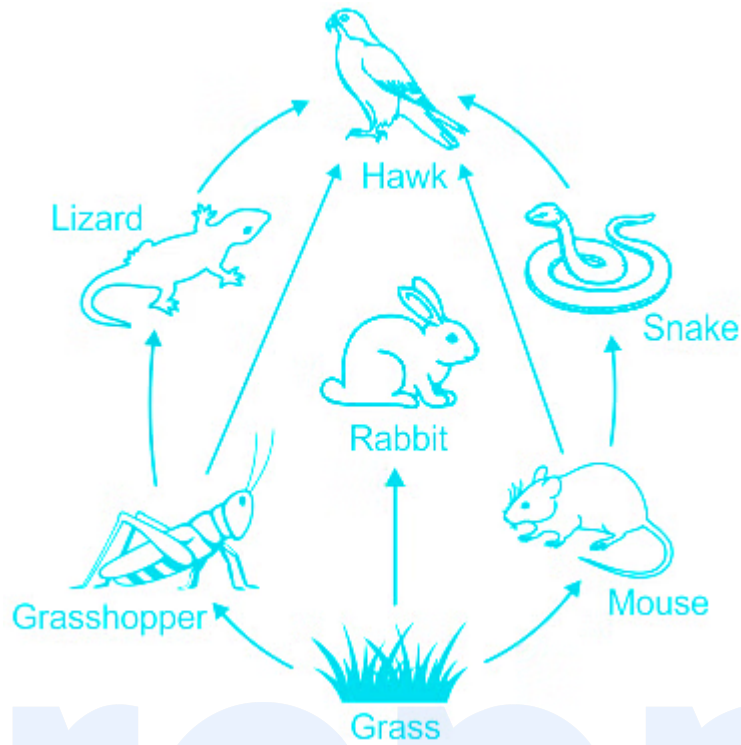


Primary (100%) → First level/ Primary (10%) → Second-level/ Secondary (1%) → Third level / Tertiary (0.1%).

★ **Additional Information**

Food web is a network of food chains where all the chains are naturally interconnected.

The flow of energy in a food chain is unidirectional, once it reaches the next trophic level it does not come back again.



93. Answer: a

Explanation:

- The **United Nations Children's Fund** is a United Nations program headquartered in New York City that provides humanitarian and developmental assistance to children and mothers in developing countries.
- Digital Gender Atlas has been developed to identify the low performing geographic pockets for girls, particularly from marginalized groups such as scheduled castes, scheduled tribes, and Muslim minorities, on specific gender-related education indicators.
- With the support of UNICEF, a tool has been developed which will help identify low performing geographic pockets for girls, particularly from marginalized groups such as scheduled castes, scheduled tribes, and Muslim minorities, on specific gender-related education indicators.

94. Answer: c

### Explanation:

- A lightning rod or lightning conductor invented by **Benjamin Franklin** in 1752 in Pennsylvania in 1749, is a metal rod mounted on a structure and intended to protect the structure from a lightning strike.
  - If lightning hits the structure, it will preferentially strike the rod and be conducted to ground through a wire, instead of passing through the structure, where it could start a fire or cause electrocution. Lightning rods are also called finials, air terminals or strike termination devices.
- 

### 95. Answer: b

### Explanation:

- Pilavullakandi Thekkeparambil Usha, popularly known as P. T. Usha, nicknamed Payoli Express, is a retired Indian track and field athlete.
  - She has been associated with Indian athletics since 1979. She is often called the "queen of Indian track and field"
- 

### 96. Answer: b

### Explanation:

- There are two great schools of Buddhist thought, the Mahayana, and Hinayana, or the Great and Small Vehicle, and they correspond to the creative character of the Mind and the senses of knowledge respectively.
  - The **Mahāvastu** (Sanskrit for "Great Event" or "Great Story") is a text of the Lokottaravāda school of Early Buddhism. It describes itself as being a historical preface to the Buddhist monastic codes.
- 

### 97. Answer: c



### Explanation:

- Nisha Dutt, Chief Executive Officer of Hyderabad-based Intellectap has been honored with the “Social Entrepreneur of the Year” award at The 7th Asian Awards in London.
  - She is the first Indian woman leader to have been conferred with this recognition. This award has been presented to her for leading Intellectap to become a globally known enterprise that focuses on social capital and impacts the underserved communities.
- 

### 98. Answer: a

#### Explanation:

Jayaprakash Narayan popularly referred to as JP or Lok Nayak (11 October 1902 – 8 October 1979), was an Indian independence activist, theorist, and political leader remembered especially for leading the mid-1970s, wrote the book “Prison Diary”.

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### 99. Answer: a

#### Explanation:

- The Missile Technology Control Regime (MTCR) is a multilateral export control regime.
  - It is an informal and voluntary partnership among **35 countries** to prevent the proliferation of missile and unmanned aerial vehicle technology capable of carrying above 500 kg payload for more than 300 km.
  - India formally applied for membership to the group in June 2015, with active support from France and the United States, and officially became 35<sup>th</sup> member on 27 June 2016 with the consensus of the 34member nations.
-



100. Answer: d

**Explanation:**

- India and **Sri Lanka** have agreed to set up a Joint Working Group on Fisheries (JWG) and a hotline between their Coast Guards to address the long-standing issue of fishermen from Tamil Nadu being arrested.
- The decision was taken between External Affairs Minister Sushma Swaraj and Sri Lankan Foreign Minister Mangala Samaraweera in New Delhi.

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