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	BPSC	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: 6 Oct 2021 Shift 2)

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. Identify the segment in the sentence which contains a grammatical error.   (+1, −0.25)

The flood situation in the eastern region of the country remain grim for the fifth day today.

   a. for the fifth day

   b. of the country

   c. remain grim

   d. The flood situation

2. Select the most appropriate ANTONYM of the given word.   (+1, −0.25)

BLAME

   a. Rebuke

   b. Criticise

   c. Shout

   d. Praise

3. Select the most appropriate synonym of the given word.   (+1, −0.25)

OUTRAGED

   a. Absurd

   b. Angry

   c. Content

d. Satisfied

---

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

   These days I like to eat nuts and seeds along with fruits as I'm conscious of
   my <u>healthfulness</u>.

   a. No substitution required

   b. healthy

   c. healthful

   d. health

---

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

   Hurry up, <u>in case</u> you will be late for your school.

   a. otherwise

   b. even if

   c. No substitution required

   d. so that

---

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

   RIDICULOUS

   a. Incredible

   b. Unbelievable

   c. Noteworthy

   d. Reasonable

---

7. Select the word which means the same as the group of words given.   (+1, -0.25)

   Living or growing in water

   a. Submarine

   b. Mammal

   c. Amphibian

   d. Aquatic

---

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

   It is <u>much more difficult</u> to judge oneself than to judge others.

   a. more difficulty

   b. much difficult

   c. much more difficulty

   d. No substitution required

---

9. Identify the segment in the sentence which contains a grammatical error. (+1, -0.25)

Though the schools have reopened, children are not go to school and are having online lessons.

a. are not go

b. Though the schools

c. are having

d. have reopened

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

ANTIQUE

a. Beautiful

b. Modern

c. Recent

d. Ancient

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

Turn a deaf ear

a. Pretend to listen carefully

b. Shout to be heard by someone

c. Be hard of hearing

d. Ignore what someone says

12. Select the word which means the same as the group of words given.   (+1, -0.25)

Certain to happen

    a. Unbelievable

    b. Unchanging

    c. Inevitable

    d. Indelible

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

You _____ told me that you are planning to take up a course in photography and now you are denying it.

    a. ourselves

    b. themselves

    c. itself

    d. yourself

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

    a. Explanation

    b. Aviasion

    c. Extension

    d. Tradition

15. **Select the most appropriate word to fill in the blank.** (+1, -0.25)

The management is going to change the _____ criteria for undergraduate courses.

a. available

b. curricular

c. appearance

d. eligibility

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

a. Actually

b. Probably

c. Tripple

d. Application

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

Pull someone up

a. Agree with someone

b. Drag someone

c. Criticise someone

d. Help someone

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

The _ _ _ _ _ expenses for a trip to Europe are very high.

a. overhead

b. overdone

c. overburdened

d. overpaid

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

The family living next door has left for France,_ _ _ _ _ _ it?

a. didn't

b. aren't

c. haven't

d. hasn't

20. Identify the segment in the sentence which contains a grammatical error. (+1, -0.25)

I was told that we would met at five in the evening but no one has turned up for the meeting so far.

a. I was told

b. we would met

c. for the meeting

d. in the evening

---

21. In the following passage, some words have been deleted. Fill in the blanks with the help of the alternatives given. Select the most appropriate option for each blank.

    (+1, -0.25)

    Time is very precious and must not be wasted on petty matters that have (1)_____ value in our lives. People keep money in safes but time(2)____be saved in this way. Time can be saved and utilized only by being alert, (3)_____ it very carefully, and being conscious of its passage. People who made the right use of time by not wasting it on worldly (4)_____ and spent it on understanding the true nature of life and its purpose have left us with a (5)_____ collection of religious books and wise thoughts.

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

    a. nothing

    b. no

    c. none

    d. no one

---

22. In the following passage, some words have been deleted. Fill in the blanks with the help of the alternatives given. Select the most appropriate option for each blank.

    (+1, -0.25)

    Time is very precious and must not be wasted on petty matters that have (1)_____ value in our lives. People keep money in safes but time(2)____be saved in this way. Time can be saved and utilized only by being alert, (3)_____ it very carefully, and being conscious of its passage. People who made the right use of time by not wasting it on worldly (4)_____ and spent it on understanding the true nature of life

and its purpose have left us with a (5)_____ collection of religious books and wise thoughts.

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

a. wasn't

b. can't

c. hadn't

d. wouldn't

23. In the following passage, some words have been deleted. Fill in the blanks (+1, -0.25) with the help of the alternatives given. Select the most appropriate option for each blank.

Time is very precious and must not be wasted on petty matters that have (1)_____ value in our lives. People keep money in safes but time(2)____be saved in this way. Time can be saved and utilized only by being alert, (3)_____ it very carefully, and being conscious of its passage. People who made the right use of time by not wasting it on worldly (4)_____ and spent it on understanding the true nature of life and its purpose have left us with a (5)_____ collection of religious books and wise thoughts.

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

a. holding

b. creating

c. treating

d. spending

24. In the following passage, some words have been deleted. Fill in the blanks   (+1, -0.25)
    with the help of the alternatives given. Select the most appropriate option
    for each blank.

    Time is very precious and must not be wasted on petty matters that have
    (1)_____ value in our lives. People keep money in safes but
    time(2)____be saved in this way. Time can be saved and utilized only by
    being alert, (3)_____ it very carefully, and being conscious of its
    passage. People who made the right use of time by not wasting it on
    worldly (4)_____ and spent it on understanding the true nature of life
    and its purpose have left us with a (5)_____ collection of religious
    books and wise thoughts.

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

    a. laughter

    b. subjects

    c. pleasures

    d. chances

25. In the following passage, some words have been deleted. Fill in the blanks   (+1, -0.25)
    with the help of the alternatives given. Select the most appropriate option
    for each blank.

    Time is very precious and must not be wasted on petty matters that have
    (1)_____ value in our lives. People keep money in safes but
    time(2)____be saved in this way. Time can be saved and utilized only by
    being alert, (3)_____ it very carefully, and being conscious of its
    passage. People who made the right use of time by not wasting it on
    worldly (4)_____ and spent it on understanding the true nature of life
    and its purpose have left us with a (5)_____ collection of religious
    books and wise thoughts.

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

a. richer

b. richest

c. too rich

d. rich

26. Two statements are given followed by three conclusions numbered I, II and III. Assuming the statements to be true, even if they seem to be at variance with commonly known facts, decide which of the conclusions logically follow(s) from the statements.   **(+1, -0.25)**

Statements:

All pigeons are crows.

No crow is a bird.

Conclusions:

I. Some crows are pigeons.

II. Some pigeons are birds.

III. No pigeon is a bird.

a. Only conclusions I and II follow.

b. Either conclusion II or III follows.

c. Only conclusions I and III follow

d. Only conclusions II and III follow.

---

27. Select the set of classes the relationship among which is best illustrated by the following Venn diagram.   **(+1, -0.25)**

a. Sugarcane, Fruits, Milk

b. Cars, Buses, Cycles

c. Motorcycles, Vehicles, Scooters

d. Spices, Cumin, Metal

28. Among five iron balls P, Q, R, S and T, the weight of Q is 5 kg, which is double the weight of P, The weight of S is half the weight of T. The weight of R is equal to the weight of P and Q taken together. The weight of T is four times the weight of R. What is the weight of S? **(+1, -0.25)**

a. 10 kg

b. 30 kg

c. 15 kg

d. 7.5 kg

29. Which two signs should be interchanging to make the given equation correct? **(+1, -0.25)**

$32 + 14 \times 3 - 91 \div 7 = 3$

a. + and −

b. + and ×

c. ÷ and −

d. ÷ and ×

30. Which of the following numbers will replace the question mark (?) in the given series?Select the number from among the given options that can **(+1, -0.25)**

replace the question mark (?) in the following series.

68, 77, 89, 105, ?, 153

a. 126

b. 130

c. 141

d. 120

---

31. Vinita, Anita, Preeti and Kunjan are dining around a square table facing the centre. Each friend is sitting at the middle of one of the four sides. Kunjan is sitting to the left of Anita. Preeti is sitting to the right of Vinita. Who is sitting to the left of Kunjan? (+1, -0.25)

a. Anita

b. Either Vinita or Anita

c. Vinita

d. Preeti

---

32. In a certain code language, 'PLANT' is written as 'OJXJO'. How will 'FORTE' be written in that language? (+1, -0.25)

a. ENPPZ

b. EMOPZ

c. EMOQY

d. ELNPZ

33. In a certain code language, 'DOSIER' is written as 'DEIORS' and 'LOGIC' is written as 'CGILO'. How will 'CORTEX' be written in that language? **(+1, -0.25)**

 a. DPSUFY

 b. ECROXT

 c. CEORTX

 d. CEROXT

---

34. 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)**

PRANIC : SQOBDJ :: SORBID : ?

 a. PUCTEJ

 b. PTNSEK

 c. QTCRFJ

 d. PTCSEJ

---

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

445	285	80
550	332	109
655	441	?

 a. 107

b. 90

c. 129

d. 147

---

36. Select the correct mirror image of the given combination when the mirror is placed at MN as shown below. **(+1, -0.25)**

GuP4tR |MN

a. Яt4ЧuⓄ

b. Яt4ЧnⓄ

c. Ɱup4tЯ

d. Яt4ЧuⓄ

---

37. Select the option that is related to the third word in the same way as the second word is related to the first word. **(+1, -0.25)**
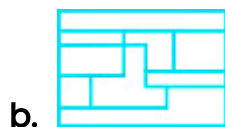
Lazy : Hard-working :: Wealthy : ?

a. Penniless

b. Rich

c. Unhappy

d. Money

38. Which two numbers should be interchanged to make the given equation correct?   **(+1, -0.25)**

72 + 63 ÷ 9 × 5 − 36 = 67

   a. 63 and 36

   b. 63 and 72

   c. 5 and 36

   d. 72 and 36

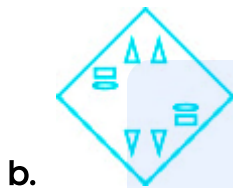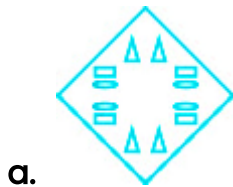**39.** Select the option figure in which the given figure (X) is embedded as its part (rotation is NOT allowed).   **(+1, -0.25)**
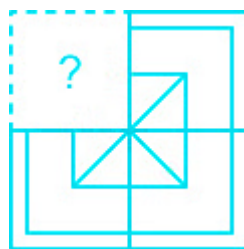

   a.

   b.

   c.

   d.

40. A paper is folded and cut as shown below. How will it appear when unfolded? **(+1, -0.25)**
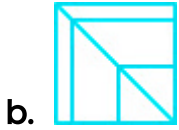

a.

b.

c.

d.

41. Select the option figure that will replace the question mark (?) in the figure given below to complete the pattern. **(+1, -0.25)**

a.

b.

c.

d.

---

42. In a certain code language, 'BOXER' is written as '251224229'. How will 'PULLY' be written in that language?   (+1, -0.25)

   a. 16615158

   b. 11615152

   c. 16211212

   d. 11612152

---

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

   Hibiscus : Flower :: Penguin : ?

   a. Reptile

   b. Snow

c. Bird

d. Black

---

44. In a certain code language, 'WORSHIP' is written as '23418198316' and 'ROAD' is written as '18414'. How will 'REDUCE' be written in that language? **(+1, −0.25)**

a. 1824532

b. 1854735

c. 1823132

d. 9546035

---

45. Six friends G, H, M, J, K and L are sitting in a straight line facing north. G is sitting between L and H. H is fourth to the right of M. K is to the immediate right of H. Who is sitting between L and M? **(+1, −0.25)**

a. J

b. G

c. H

d. K

---

46. Select the option that is related to the third number in the same way as the second number is related to the first number. **(+1, −0.25)**

20 : 421 :: 18 : ?

a. 343

b. 389

c. 289

d. 305

---

47. Which of the following letter-clusters will replace the question mark (?) in the given series?   (+1, −0.25)

YTM, AQQ, CNU, ?, GHC

a. ELZ

b. EKY

c. DLY

d. EKX

---

48. Two statements are given followed by two conclusions numbered I and II. Assuming the statements to be true, even if they seem to be at variance with commonly known facts, decide which of the conclusions logically follow(s) from the statements.   (+1, −0.25)

Statements:

All machines are refrigerators.

All refrigerators are geysers.

Conclusions:

I. Some machines are not geysers.

II. Some geysers are machines.

a. Only conclusion II follows.

b. Neither conclusion I nor II follows.

c. Both conclusions I and II follow.

d. Only conclusion I follows.

---

49. Select the option that will replace the question mark (?) in the following figure series.   (+1, -0.25)

a.

b.

c.

d.

---

50. Which of the following numbers will replace the question mark (?) in the given series?   (+1, -0.25)

55, 68, 82, ?, 113, 130

a. 97

b. 104

c. 94

d. 90

Numerical Aptitude

51. A sum of Rs. 4,095 is divided between A, B, C and D such that the ratio of the shares of A and B is 1 : 3, that of B and C is 2 : 5 and that of C and D is 2 : 3. What is the difference (in Rs.) between the shares of B and D?   (+1, −0.25)

    a. 1,440

   **b.** 1,485

    c. 1,530

    d. 1,845

---

52. A 248-m-long train travelling at 88 km/h takes 30 seconds to cross another train, x m long, travelling at 34 km/h in the same direction. What is the value of x ?   (+1, −0.25)

    a. 192

    b. 197

    c. 202

    d. 207

---

53. Study the given pie chart and answer the question that follows: (+1, −0.25)

The given pie chart shows the distribution (degree wise) of students in a college playing different sports.

Total Number of Students = 600
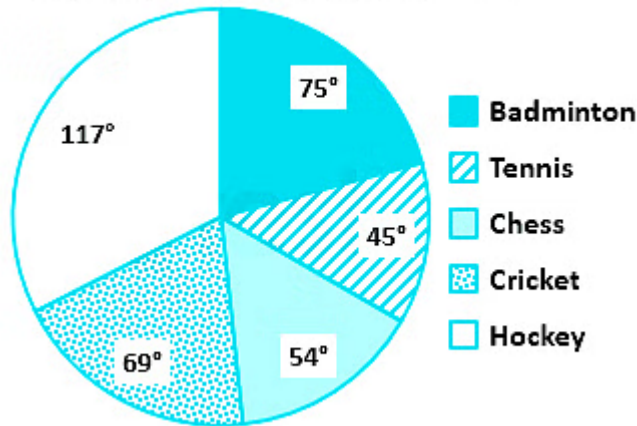
The average number of students playing tennis and hockey is what percent more than the number of students playing badminton?

a. 7.4

b. 8

c. 8.2

d. 10

---

54. When an article is sold for Rs. 640, there is a loss of 12%. To gain 21%, it should be sold for: **(+1, -0.25)**

a. Rs. 774.40

b. Rs. 880.00

c. Rs. 770.00

d. Rs. 828.80

---

55. The sides of a triangular field are 96 m, 110 m and 146 m. The cost of levelling the field at Rs. 5.60 per m^2 is: **(+1, -0.25)**

a. Rs. 31,680

b. Rs. 30,564

c. Rs. 29,568

d. Rs. 28,224

---

56. Let x be the least number which on being divided by 8, 12, 15, 24, 25 and 40 leaves a remainder of 7 in each case. **(+1, -0.25)**

What will be the remainder when x is divided by 29?

a. 18

b. 27

c. 19

d. 20

---

57. A and B working together can complete 45% of a work in 18 days. A alone **(+1, -0.25)** can complete the same work in 60 days. A and B work together for 16 days, and then A leaves. B alone will complete the remaining work in:

a. 80 days

b. 60 days

c. 72 days

d. 75 days

58. If (x + 25)% of 270 is 20% more than x% of 240, then 12% of (x + 125) is what percent more than 10% of x? **(+1, −0.25)**

    a. 55

    b. 45

    c. 42

    d. 60

59. The value of $\dfrac{\frac{8}{3}\div\frac{3}{5}\times\frac{7}{5}}{\frac{5}{3}\div\frac{5}{7}\times\frac{8}{9}}\div 6$ is: **(+1, −0.25)**

    a. $\frac{1}{6}$

    b. $\frac{1}{4}$

    c. $\frac{1}{3}$

    d. $\frac{1}{2}$

60. A trader marks his goods in such a way that after allowing 16% discount on the marked price, he still gains 26%. If the cost price of the goods is Rs. 318, then what is the marked price of the goods? **(+1, −0.25)**

    a. Rs. 477

    b. Rs. 456

    c. Rs. 450

    d. Rs. 427

61. X is 60% more efficient than Y, and Y alone can do a work in 80 days. Working together, X and Y will complete 52% of the same work in: **(+1, −0.25)**

    a. 16 days

    b. 15 days

    c. 18 days

    d. 20 days

---

62. A car covers a distance of 450 km at a certain uniform speed (in km/h). The number of hours it takes for the journey is $\frac{1}{8}$ of the number representing the speed. The time taken (in hours) by the car to cover the distance is: **(+1, −0.25)**

    a. 9

    b. 6

    c. $6\frac{1}{4}$

    d. $7\frac{1}{2}$

---

63. A certain sum is lent at 5% p.a. for 2 years, 9% p.a. for the next 3 years and 13% p.a. after 5 years. If the simple interest on the sum for a period of 10 years is Rs. 8,160, then the sum (in Rs.) is: **(+1, −0.25)**

    a. 8,000

    b. 9,000

    c. 8,400

d. 9,600

---

64. The average score of A, B and C in a test is 78 and that of C, D and E is 52. **(+1, -0.25)** The average score of E and F is 48 and that of E and C is 60. What is the average score of A, B, C, D, E and F?

a. 62

b. 67

c. 63

d. 61

---

65. Study the given pie chart and answer the question that follows: **(+1, -0.25)**

The given pie chart shows the distribution (degree wise) of students in a college playing different sports.

Total Number of Students = 600

- Badminton 75°
- Tennis 45°
- Chess
- Cricket 69°
- Hockey 54°
- 117°
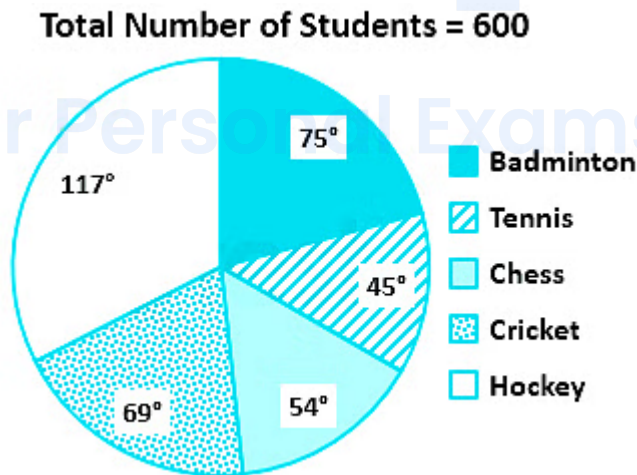
The difference between the number of students playing chess and badminton is x. The value of x lies between:

a. 32 and 38

b. 26 and 32

c. 44 and 50

d. 38 and 44

---

66. The value of 39 − [30 − {33 − (19 − 4 ÷ 3 of 8 × 6)}] is: (+1, −0.25)

    a. 15

    b. 18

    c. 24

    d. 9

---

67. The ratio of acid to water in solutions A and B is 2 : 7 and 4 : 5,   (+1, −0.25)
    respectively, these solutions are mixed in the ratio of 4 : 3. What is the
    ratio of acid to water in the resulting solution?

    a. 25 : 21

    b. 23 : 40

    c. 21 : 40

    d. 20 : 43

---

68. If $(11a^3 - 15b^3) : (10a^3 + 4b^3) = 5 : 7$, then $(9a + 5b) : (5a - 3b)$ is equal   (+1, −0.25)
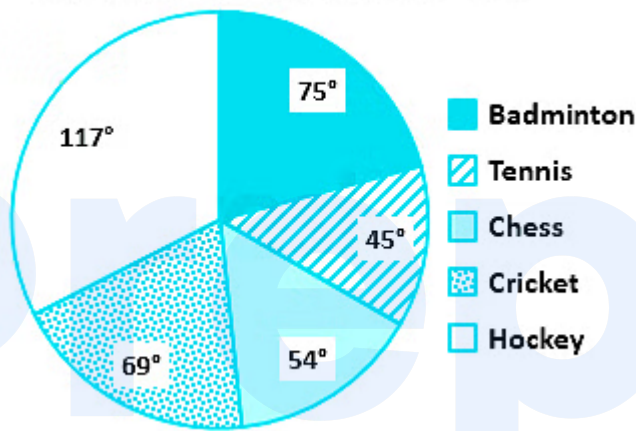   to:

    a. 10 : 7

    b. 13 : 5

c. 15 : 4

d. 14 : 9

---

69. Study the given pie chart and answer the question that follows: **(+1, −0.25)**

The given pie chart shows the distribution (degree wise) of students in a college playing different sports.

Total Number of Students = 600

- 75° Badminton
- 45° Tennis
- Chess
- Cricket
- Hockey
- 117°
- 69°
- 54°

If the ratio of the number of male students to that of female students playing hockey is 6 : 7 and 40% of the number of students playing tennis are females, then the total number of male students playing hockey and tennis is:

a. 135

b. 108

c. 120

d. 117

---

70. Anu sells articles A and B for Rs. 4,000 each, with no loss or profit in the entire transaction. If A is sold at a 25% profit, then B is sold at a loss of: **(+1, −0.25)**

a. 25%

b. $15\frac{1}{2}$ %

c. 20%

d. $16\frac{2}{3}$ %

---

71. Three years ago, the average age of A, B and C was 29 years. If the average age of B and C, 5 years ago, was 23 years, then what is the present age (in years) of A? **(+1, −0.25)**

a. 49

b. 40

c. 46

d. 50

---

72. The value of $\frac{5}{8} \div \left(\frac{8}{11} \times 2\frac{3}{4} \div \frac{4}{9}\right) + 5\frac{1}{3} \div \left(5\frac{1}{4} \div \frac{3}{8} \times \frac{3}{7}\right)$ of $1\frac{7}{9}$ is: **(+1, −0.25)**

a. $\frac{1}{2}$

b. $\frac{1}{4}$

c. $\frac{23}{36}$

d. $\frac{5}{18}$

---

73. What is the mean of the median and range of the following data? **(+1, −0.25)**

3, 8, 7, 12, 4, 3, 16, 20, 23, 10, 9, 15, 2, 7

a. 14.5

b. 14.75

c. 13.75

d. 19.5

---

74. What is the compound interest on a sum of Rs. 12,000 at 18% per annum for $1\frac{1}{3}$ years, if the interest is compounded 8-monthly? **(+1, −0.25)**

a. Rs. 4,708.80

b. Rs. 2,980.20

c. Rs. 3,840.40

d. Rs. 3,052.8

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75. The diameter of the base of a solid right circular cone is 22 cm and its height is 60 cm. The cost of polishing its curved surface at Rs. 1.40 per cm^2 is: (Take π = $\frac{22}{7}$) **(+1, −0.25)**

a. Rs. 3,006

b. Rs. 2,904

c. Rs. 2,807.20

d. Rs. 2,952.40

General Awareness

76. Which of the following persons was awarded the Padma Vibhushan posthumously in 2020?   (+1, -0.25)

   a. P Parameswaran

   b. Ustad Ghulam Mustafa Khan

   c. Kuldip Nayar

   d. Arun Jaitley

77. _____ is the harvest festival of the Kodava community of Coorg.   (+1, -0.25)

   a. Madai

   b. Bhagoria

   c. Theyyam

   d. Puttari

78. Which of the following is a book by Lewis Carroll?   (+1, -0.25)

   a. The Man Who Would be King

   b. The Jungle Book

   c. Rikki-Tikki-Tavi

   d. Alice's Adventures in Wonderland

79. Name the captain of the Indian Men's Hockey Team as of 30th July 2020.   (+1, -0.25)

a. Manpreet Singh

b. Jarmanpreet Singh

c. Gurinder Singh

d. Harmanpreet Singh

---

80. Which of the following Indian festivals is celebrated by suspending a pot containing butter, curd, etc. high above the ground with people trying to break it by forming human pyramids?

(+1, −0.25)

a. Ramnavami

b. Janmashtami

c. Sankranti

d. Ugadi

---

81. The Ganga-Brahmaputra basin lies between _ _ _ _ _ latitudes.

(+1, −0.25)

a. 16°N and 36°N

b. 14°N and 34°N

c. 12°N and 32°N

d. 10°N and 30°N

---

82. Which part of the soil contains humus?

(+1, −0.25)

a. A-horizon

---

b. C-horizon

c. Bedrock

d. B-horizon

---

83. Sponges belong to phylum _ _ _ _ _ _ of the animal kingdom.   (+1, -0.25)

   a. Porifera

   b. Mollusca

   c. Aschelminthes

   d. Echinodermata

---

84. Which of the following statements about the city of Ahmedabad is NOT   (+1, -0.25)
    true?

   a. The first mill in Ahmedabad was established in the year 1895.

   b. Ahmedabad is located on the banks of the river Sabarmati.

   c. Ahmedabad was often referred to as the 'Manchester of India'.

   d. Ahmedabad is situated very close to cotton growing areas.

---

85. Which of the following is a dance form from the state of Uttarakhand?   (+1, -0.25)

   a. Therukoothu

   b. Choliya

   c. Rouf

    d. Kutiyattam

---

86. As per the recommendations of the National Statistical Commission, the Base Year of the GDP Series in India was revised from 2004-05 to _ _ _ _ _ with effect from January 2015.　　**(+1, -0.25)**

    a. 2011-12

    b. 2013-14

    c. 2005-06

    d. 2009-10

---

87. Which of the following is NOT a public sector insurance company?　　**(+1, -0.25)**

    a. United India Insurance Company

    b. The New India Assurance Company Limited

    c. SBI Life Insurance

    d. General Insurance Corporation of India

---

88. Part _ _ _ _ _ _ of the Constitution of India deals with amendment of the Constitution.　　**(+1, -0.25)**

    a. 18

    b. 13

    c. 20

    d. 10

89. Which of the following is the only President of India to have her/his wax statue at the Madame Tussauds wax museum in Delhi as of September 2020?   **(+1, -0.25)**

    a. APJ Abdul Kalam

    b. Sarvepalli Radhakrishnan

    c. Pratibha Patil

    d. Rajendra Prasad

90. Rivers such as Ganga and Son flowed through _____, a mahajanapada in ancient India.   **(+1, -0.25)**

    a. Kamboja

    b. Kosala

    c. Magadha

    d. Machcha

91. The United Nations Sustainable Development Goal 6 strives to _____.   **(+1, -0.25)**

    a. achieve gender equality and empower all women and girls

    b. end hunger, achieve food security and improved nutrition and promote sustainable agriculture

    c. ensure healthy lives and promotes well-being for all at all ages

    d. ensure availability and sustainable management of water and sanitation for all

92. Which of the following statements about the Constitution of India is NOT true? **(+1, -0.25)**

    a. It prevents the State from making any law in matters of religion.

    b. Its makers choose the model of a secular state.

    c. It provides all individuals and communities the freedom to profess, practice and propagate any religion.

    d. It prohibits discrimination on grounds of religion.

93. Ancient Indian manuscripts were usually written on palm leaves or the bark of the _ _ _ _ _ tree, which grows in the Himalayas. **(+1, -0.25)**

    a. boxwood

    b. maple

    c. birch

    d. cedar

94. The size of the pupil of the eye is controlled by the _ _ _ _ _. **(+1, -0.25)**

    a. blind spot

    b. retina

    c. cornea

    d. iris

95. Which of the following statements about forests in INCORRECT? **(+1, -0.25)**

    a. In a forest, trees form the uppermost layer of vegetation.

    b. Forests protect the soil from erosion.

    c. In a forest, shrubs form the lowest layer of vegetation.

    d. Forests influence climate, water cycle and air quality.

96. Which of the following is a Palaeolithic site of archaeological importance in India? **(+1, -0.25)**

    a. Chirand

    b. Burzahom

    c. Hunasagi

    d. Mehrgarh

97. A _ _ _ _ is an instrument used for measuring electrical potential difference between two points in an electric circuit. **(+1, -0.25)**

    a. barometer

    b. galvanometer

    c. ammeter

    d. voltmeter

98. In which year did the Government of India set up the first mutual fund by an Act of Parliament? **(+1, -0.25)**

    a. 1979

    b. 1982

    c. 1963

    d. 1971

---

99. Cricketer Zaheer Khan was awarded the _ _ _ _ _ _ in 2020. **(+1, -0.25)**

    a. Padma Shree

    b. Arjuna Award

    c. Padma Bhushan

    d. Dronacharya Award

---

100. Article 57 of the Constitution of India states that _ _ _ _ _ _ _. **(+1, -0.25)**

    a. A person who holds, or who has held, office as President shall, subject to the other provisions of this Constitution, be eligible for re-election to that office.

    b. The executive power of the Union shall be vested in the President and shall be exercised by him either directly or through officers subordinate to him in accordance with this Constitution.

    c. The President shall hold office for a term of five years from the date on which he enters upon his office.

d. The President shall be elected by the members of an electoral college consisting of— (a) the elected members of both Houses of Parliament, and (b) the elected members of the Legislative Assemblies of the States.

Answers

1. Answer: c

Explanation:

The correct answer is **'remain grim'**.

⭐ <u>**Key Points**</u>

- The given sentence is grammatically incorrect.
- Here, **'remains grim'** should be used instead of **'remain grim'**.
- According to the **'subject-verb agreement'** rule, the main verb in a sentence should be used on the basis of the **subject** .
- In the given sentence, **'the flood situation'** is the main **subject** that is **singular** .
- Hence, **a singular helping verb** should be used.

<u>**Correct Sentence:**</u>*The flood situation in the eastern region of the country* ***remains*** *grim for the fifth day today.*

⭐ <u>**Hinglish**</u>

- दिया गया वाक्य व्याकरण की दृष्टि से गलत है।
- यहाँ **'remain grim'** के स्थान पर **'remains grim'** का प्रयोग करना चाहिए।
- **'subject-verb agreement'** नियम के अनुसार वाक्य में **main verb** का प्रयोग **subject** के आधार पर करना चाहिए।
- दिए गए वाक्य में **'the flood situation'** मुख्य **subject** है जो **singular** है।
- इसलिए, एक **singular helping verb** का उपयोग किया जाना चाहिए।

---

2. Answer: d

Explanation:

Here the correct answer is **Praise** .

⭐ <u>Key Points</u>

- Let's look at the **meaning** of the given word:-
- **Blame** - feel or declare that (someone or something) is responsible for a fault or wrong. (आरोप)
  - For Example - The inquiry **blamed** the train driver for the accident.
- Let's look at the **meaning** of the other words given in options:-
  - **Rebuke** - express sharp disapproval or criticism of (someone) because of their behaviour or actions. (फटकार)
  - **Criticise** - indicate the faults of (someone or something) in a disapproving way. (आलोचना)
  - **Shout** - (of a person) utter a loud cry, typically as an expression of strong emotion. (चिल्लाहट)
  - **Praise** - express warm approval or admiration of. (प्रशंसा)
- Thus, after looking at the meaning of the given words, it is clear that the correct **antonym** for ' **blame** ' is **praise** '.
- Therefore, the correct answer is **Option 4.**

---

3. **Answer: b**

Explanation:

Here the correct answer is **Angry** .

⭐ <u>Key Points</u>

- Let's look at the **meaning** of the given word:-
  - **Outraged** - arouse fierce anger, shock, or indignation in (someone). ((किसी) में भयंकर क्रोध, सदमा या आक्रोश पैदा करना)
    - For Example - The public was **outraged** at the brutality involved.
- Let's look at the **meaning** of the words given in options:-
  - **Absurd** - wildly unreasonable, illogical, or inappropriate. (बेतहाशा अनुचित, अतार्किक या अनुचित)
  - **Angry** - feeling or showing strong annoyance, displeasure, or hostility; full of anger. (झुंझलाहट, नाराजगी या शत्रुता महसूस करना या दिखाना; क्रोध से भरा हुआ)

- ○ **Content** - in a state of peaceful happiness. (शांतिपूर्ण खुशी की स्थिति में)
  - ○ **Satisfied** - contented; pleased. (संतुष्ट; प्रसन्न)
- Thus, after looking at the meanings of the given words, it is clear that the correct **synonym** for ' **outraged** ' is ' **angry** '.
- Therefore, the correct answer is **Option 2.**

---

4. Answer: d

Explanation:

The correct answer is ' **health** '.

⭐ <u>Key Points</u>

- The given sentence is grammatically incorrect.
- Here, ' **health** ' should be used instead of ' **healthfulness** '.
- '**Healthfulness**' is an **adjective** which means '**beneficial to the health of body or mind**'.
- Whereas in the given context '**a noun**' is needed.
- **Adjectives** are words that describe the qualities or states of being of nouns. Here, no such qualification is required.
- Hence, ' **health** ' should be used.

<u>Correct Sentence:</u>*These days I like to eat nuts and seeds along with fruits and I'm conscious of my* health *.*

⭐ <u>Hinglish</u>

- दिया गया वाक्य व्याकरण की दृष्टि से गलत है।
- यहां ' **healthfulness** ' के स्थान पर ' **health** ' का प्रयोग करना चाहिए।
- ' **Healthfulness** ' एक **adjective** है जिसका अर्थ है '**शरीर या मन के स्वास्थ्य के लिए लाभकारी**' ।
- जबकि दिए गए संदर्भ में ' **noun** ' की आवश्यकता होती है।
- **Adjective** वे शब्द होते हैं जो **noun** के होने के गुण या अवस्था का वर्णन करते हैं। यहां, ऐसी किसी योग्यता की आवश्यकता नहीं है।
- इसलिए, ' **health** ' का प्रयोग करना चाहिए।

5. **Answer: a**

Explanation:

The correct answer is ' **otherwise** '.

⭐ **Key Points**

- The given sentence is grammatically incorrect.
- Here, ' otherwise ' should be used instead of ' in case '.
- Otherwise is 'used for stating what would happen if you do not do something or if something does not happen if not'.
  - *Example: You have to press the red button, otherwise it won't work.*
- The given sentence is trying to express the fact that the person will be late for school if he/she does not hurry.
- Whereas 'in case' means 'because something might happen'.
  - *Example: I think I'll take an umbrella in case it rains.*
- Hence, we can deduce by reading the above definitions that the correct answer is Option 1.

Correct Sentence:*Hurry up, otherwise you will be late for your school.*

⭐ **Hinglish**

- दिया गया वाक्य व्याकरण की दृष्टि से गलत है।
- यहाँ पर **'in case'** के स्थान पर ' **otherwise** ' का प्रयोग करना चाहिए।
- **Otherwise** 'यह बताने के लिए प्रयोग किया जाता है कि क्या होगा यदि आप कुछ नहीं करते हैं या यदि कुछ नहीं होता है तो क्या होगा'।
  - *Example: You have to press the red button, otherwise it won't work.*
- दिया गया वाक्य इस तथ्य को व्यक्त करने का प्रयास कर रहा है कि यदि व्यक्ति जल्दी नहीं करता है तो उसे स्कूल के लिए देर हो जाएगी।
- जबकि **'In case'** का अर्थ है **'क्योंकि कुछ हो सकता है'** ।
  - *Example: I think I'll take an umbrella in case it rains.*
- इसलिए, हम उपरोक्त परिभाषाओं को पढ़कर यह निष्कर्ष निकाल सकते हैं कि सही उत्तर **विकल्प 1** है।

6. Answer: d

Explanation:

Here the correct answer is **Reasonable** .

⭐ **Key Points**

- Let's look at the **meaning** of the given word:-
  - **Ridiculous** - stupid or unreasonable and deserving to be laughed at. (मूर्ख या अनुचित और हँसने के योग्य)
    - For Example - Do I look **ridiculous** in this hat?
- Let's look at the **meaning** of the words given in options:-
  - **Incredible** - impossible, or very difficult, to believe. (अविश्वसनीय)
  - **Unbelievable** - extremely surprising. (अविश्वसनीय)
  - **Noteworthy** - deserving attention because of being important or interesting. (गौरतलब है; महत्वपूर्ण या दिलचस्प होने के कारण ध्यान देने योग्य)
  - **Reasonable** - based on or using good judgment and therefore fair and practical. (अच्छे निर्णय पर आधारित या उसका उपयोग करना और इसलिए निष्पक्ष और व्यावहारिक)
- Thus, after looking at the meanings of the given words, it is clear that the correct **antonym** of ' **ridiculous** ' is ' **reasonable** '.
- Therefore, the correct answer is **Option 4.**

7. Answer: d

Explanation:

Here the correct answer is **Aquatic** .

⭐ **Key Points**

- Let's look at the **meaning** of the correct answer:-
- **Aquatic** - (of a plant or animal) growing or living in or near water. (जलीय)
  - For Example - **Aquatic** sports include swimming and rowing.

- Thus, the correct answer is **Option 4.**

⭐ <u>Additional Information</u>

- Let's look at the **meaning** of the other words given in options:-
  - **Submarine** - a warship with a streamlined hull designed to operate completely submerged in the sea for long periods, equipped with a periscope and typically armed with torpedoes or missiles; existing, occurring, or used under the surface of the sea. (पनडुब्बी)
  - **Mammal** - a warm-blooded vertebrate animal of a class that is distinguished by the possession of hair or fur, females that secrete milk for the nourishment of the young, and (typically) the birth of live young. (स्तनधारी)
  - **Amphibian** - a cold-blooded vertebrate animal of a class that comprises the frogs, toads, newts, salamanders, and caecilians. They are distinguished by having an aquatic gill-breathing larval stage followed (typically) by a terrestrial lung-breathing adult stage. (उभयचर)

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8. **Answer: d**

Explanation:

The correct answer is **'No substitution required'.**

⭐ <u>Key Points</u>

- The underlined part in the given sentence is grammatically correct.
- Here, **'much more difficult'** is correctly used.
- **'Much more'** is **'used to introduce something as being even more likely than something already mentioned'** .
  - *Example: Some children are **much more** aggressive than others.*
- Thus,the correct answer is **Option 4** .

<u>Correct Sentence:</u>*It is much more difficult to judge oneself than to judge others.*

⭐ <u>Hinglish</u>

- दिए गए वाक्य में रेखांकित भाग व्याकरण की दृष्टि से सही है।
- यहाँ 'much more difficult' का सही प्रयोग किया गया है।
- "Much more" का अर्थ है 'किसी चीज़ को पहले से बताई गई किसी चीज़ से भी अधिक होने की संभावना के रूप में पेश करना'।
  - *Example: Some children are **much more** aggressive than others.*
- अतः सही उत्तर **विकल्प 4** है।

---

9. **Answer: a**

Explanation:

The correct answer is **'are not go'**.

⭐ <u>Key Points</u>

- The given sentence is grammatically incorrect.
- Here, **'are not going'** should be used instead of **'are not go'**.
- The given sentence is an example of **'present continuous tense'**.
- The **present continuous verb** tense indicates that an action or condition is happening now, frequently, and may continue into the future.
  - *Example: Mary **is going** to a new school next term.*

<u>Correct Sentence:</u> *Though the schools have reopened, children **are not going** to school and are having online lessons.*

⭐ <u>Hinglish</u>

- दिया गया वाक्य व्याकरण की दृष्टि से गलत है।
- यहाँ, **'are not go'** के स्थान पर **'are not going'** का प्रयोग किया जाना चाहिए।
- दिया गया वाक्य **'present continuous tense'** का उदाहरण है।
- **Present continuous** काल इंगित करता है कि कोई क्रिया या स्थिति अभी, बार-बार हो रही है, और भविष्य में भी जारी रह सकती है।
  - *Example: Mary **is going** to a new school next term.*

---

10. Answer: d

Explanation:

Here the correct answer is Ancient .

⭐ **Key Points**

- Let's look at the meaning of the given word:-
    - Antique - belonging to ancient times. (प्राचीन काल से संबंधित)
- Let's look at the meaning of the words given in options:-
    - Beautiful - pleasing the senses or mind aesthetically. (सुंदर)
    - Modern - relating to the present or recent times as opposed to the remote past. (आधुनिक)
    - Recent - having happened, begun, or been done not long ago; belonging to a past period comparatively close to the present. (हालिया)
    - Ancient - belonging to the very distant past and no longer in existence. (प्राचीन)
- Thus, after looking at the meanings of the given words, it is clear that the correct synonym of ' Antique ' is ' Ancient '.
- Therefore, the correct answer is Option 4 .

11. Answer: d

Explanation:

Here the correct answer is **Ignore what someone says.**

⭐ **Key Points**

- Let's look at the **meaning** of the given idiom:-
- **Turn a deaf ear** - refuse to listen or respond to a statement or request. (किसी कथन या अनुरोध को सुनने या प्रतिक्रिया देने से इंकार करना)
    - For Example - He **turned a deaf ear** to all appeals.

- Thus, the correct answer is **Option 4** .

---

12. Answer: c

Explanation:

Here the correct answer is **Inevitable** .

⭐ Key Points

- Let's look at the **meaning** of the correct answer:-
- **Inevitable** - certain to happen; unavoidable. (निश्चित रूप से होना; अपरिहार्य)
  - For Example - Jessi drew out the **inevitable** by taking her time to select her food.
- Thus, the correct answer is **Option 3** .

⭐ Additional Information

- Let's look at the **meaning** of the other words given in options:-
  - **Unbelievable** - not able to be believed; unlikely to be true. (अविश्वसनीय)
  - **Unchanging** - not changing; remaining the same. (अपरिवर्तनीय)
  - **Indelible** - not able to be forgotten; (of ink or a pen) making marks that cannot be removed. (अमिट)

---

13. Answer: d

Explanation:

The correct answer is **'yourself'**

⭐ Key Points

- Intensive pronouns are reflexive pronouns that are used to emphasize the subject or antecedent in a sentence, often in the sense of "and not someone else.

- In the given sentence, the subject is intensified hence, we need to use the pronoun which can be used for the subject hence, the correct answer is Option 4 i.e. yourself.
- Let's see an example-
    - He closed the store on Saturday myself. (He didn't have an employee to do it.)

Hence, the correct sentence is- *You **yourself** told me that you are planning to take up a course in photography and now you are denying it.*

---

14. Answer: b

Explanation:

Here the correct answer is **Aviasion** .

⭐ **Key Points**

- The given answer i.e. **Aviasion** is **incorrectly spelt.**
- Its **correct spelling** is **Aviation** .
- Let's look at its **meaning** :-
- **Aviation** - the flying or operating of aircraft. (विमान की उड़ान या संचालन)
    - For Example - Two events launched the history of modern **aviation** .
- Thus, the correct answer is **Option 2** .

⭐ **Additional Information**

- Let's look at the **meaning** of the other words given in options:-
    - **Explanation** - a statement or account that makes something clear. (एक बयान जो कुछ स्पष्ट करता है)
    - **Extension** - a part that is added to something to enlarge or prolong it. (विस्तार; एक हिस्सा जो किसी चीज को बड़ा या लम्बा करने के लिए जोड़ा जाता है)
    - **Tradition** - a long-established custom or belief that has been passed on from one generation to another. (परंपरा)

---

15. Answer: d

Explanation:

The correct answer is **'eligibility'**

⭐ <u>**Key Points**</u>

- Let's see the meanings of the given words-
  - **available-** able to be bought or used खरीदा या इस्तेमाल किया जा सकता है
  - **curricular-** relating to the subjects studied in a school, college, etc. and what each subject includes एक स्कूल, कॉलेज, आदि में अध्ययन किए गए विषयों से संबंधित और प्रत्येक विषय में क्या शामिल है
  - **appearance-** an occasion when someone appears in public एक अवसर जब कोई सार्वजनिक रूप से प्रकट होता है
  - **eligibility-** the fact of having the necessary qualities or satisfying the necessary conditions आवश्यक गुण होने या आवश्यक शर्तों को पूरा करने का तथ्य
- Hence, according to the meanings of the given words, the correct answer is **Option 4 i.e. eligibility.**

So the correct sentence is- *The management is going to change the **eligibility** criteria for undergraduate courses.*

16. Answer: c

Explanation:

Here the correct answer is **Tripple** .

⭐ <u>**Key Points**</u>

- The correct answer i.e. ' **tripple** ' is incorrectly spelled.
- Let's look at the **correct spelling** and **meaning** of the given word:-
- **Triple** - consisting of or involving three items or people. (तीन गुना)
  - For Example - The town's population has **tripled** in size.

- Thus, the correct answer is **Option 3** .

⭐ <u>Additional Information</u>

- Let's look at the **meaning** of the other words given in options:-
  - **Actually** - as the truth or facts of a situation; really. (वास्तव में)
  - **Probably** - almost certainly; as far as one knows or can tell. (संभवत)
  - **Application** - a formal request to be considered for a position or to be allowed to do or have something, submitted to an authority, institution, or organization. (आवेदन)

⭐ <u>Confusion Point</u>

- **Tripple** is another word which means *a horse's gait in which both left and then right legs move together*.

---

17. Answer: c

Explanation:

Here the correct answer is **Criticise someone.**

⭐ <u>Key Points</u>

- Let's look at the **meaning** of the given phrase:-
- **Pull someone up** - to tell someone that they have done something wrong. (किसी को बताना कि उन्होंने कुछ गलत किया है)
  - For Example - She's always **pulling me up** for my bad spelling.
- Thus, the correct answer is **Option 3.**

---

18. Answer: a

Explanation:

The correct answer is **'overhead'**

⭐ Key Points

- Let's see the meanings of the given words-
  - **overhead-** above your head, usually in the sky or **the regular and necessary costs, such as rent, heat, electricity, and telephone, involved in operating a business** आपके सिर के ऊपर, आमतौर पर आकाश में या **नियमित और आवश्यक लागत, जैसे किराया, गर्मी, बिजली, और टेलीफोन, एक व्यवसाय के संचालन में शामिल**
  - **overdone-** (especially of meat) cooked too long (विशेषकर मांस का) बहुत देर तक पकाया जाता है
  - **overburdened-** to make someone or something work too hard or carry, contain, or deal with too much किसी को या किसी चीज़ को बहुत कठिन काम करने के लिए या बहुत अधिक ले जाने, सम्मिलित करने या उससे निपटने के लिए
  - **overpaid-** paid too much or more than usual सामान्य से बहुत अधिक या अधिक भुगतान किया गया
- Hence, according to the meanings of the given words, the correct answer is **Option 1 i.e. overhead.**

So the correct sentence is- *The overhead expenses for a trip to Europe are very high.*

---

19. **Answer: d**

Explanation:

The correct answer is **'hasn't'**

⭐ Key Points

- In the given sentence, we need to use a question tag.
- The question tags are used according to the auxiliary verb of the sentence. In the given sentence, the auxiliary verb 'has' hence, we need to use a negative question tag.
- Let's see an example-
  - Nobody has called for me, have they?

So the correct sentence is- *The family living next door has left for France, hasn't it?*

20. Answer: b

Explanation:

The erroneous part is **'we would met'**

⭐ **Key Points**

- In the given sentence, the usage of **'met'** is incorrect instead of this we need to use **'meet'**
- According to grammar, whenever we use an auxiliary verb then we need to use a base form with it instead of any other form of the verb. In the given sentence, 'met' is a second form of the verb 'meet'.
- Let's see an example-
    - He said he **would see** his brother tomorrow.

So the correct sentence is- *I was told that we **would meet** at five in the evening but no one has turned up for the meeting so far.*

21. Answer: b

Explanation:

The correct answer is **'no'**

⭐ **Key Points**

- Time is very precious and must not be wasted on petty matters that have (1)_____ value in our lives.
- In the given sentence, we need to use a negative because the speaker wants to say that "time is very important and we don't need to use the time for invaluable things" hence, the correct answer is "no" because it is an adverb which should be placed in between the auxiliary verb and the main verb.

So the correct passage will be:- *Time is very precious and must not be wasted on petty matters that have (1) no value in our lives. People keep money in safes but time (2)_____ be saved in this way. Time can be saved and utilized only by being alert, (3)_____ it very carefully, and being conscious of its passage. People who made the right use of time by not wasting it on worldly (4)_____ and spent it on understanding the true nature of life and its purpose have left us with a (5)_____ collection of religious books and wise thoughts.*

---

22. **Answer: b**

Explanation:

The correct answer is **'can't'**

⭐ **Key Points**

- People keep money in safes but time(2)____be saved in this way.
- In the given blank, we need a modal verb because the main verb is given which is written in passive voice i.e. 'saved'
- "can" is ' used to express the possibility ' here in the given sentence, the speaker wants to say keeping time in safes is not a possible way. Hence, the correct modal verb is **Option 2 i.e. can't**
- Can't is a contraction form of 'can not'

So the correct passage will be:- *Time is very precious and must not be wasted on petty matters that have (1) no value in our lives. People keep money in safes but time (2) can't be saved in this way. Time can be saved and utilized only by being alert, (3)_____ it very carefully, and being conscious of its passage. People who made the right use of time by not wasting it on worldly (4)_____ and spent it on understanding the true nature of life and its purpose have left us with a (5)_____ collection of religious books and wise thoughts.*

---

23. **Answer: d**

Explanation:

The correct answer is **'spending'**

⭐ **Key Points**

- Time can be saved and utilized only by being alert, (3)_____ it very carefully, and being conscious of its passage.
- Let's see the meanings of the given words-
  - **Holding-** something that you own such as shares in a company or buildings, or land that you rent and farm
  - **Creating-** to make something new, or invent something
  - **Treating-** to behave towards someone or deal with something in a particular way
  - **Spending-** to use time doing something or being somewhere
- Hence, according to the meanings of the given words, the correct answer is **Option 4 i.e. spending.**

So the correct passage will be:- *Time is very precious and must not be wasted on petty matters that have (1) no value in our lives. People keep money in safes but time (2) can't be saved in this way. Time can be saved and utilized only by being alert, (3) spending it very carefully, and being conscious of its passage. People who made the right use of time by not wasting it on worldly (4)_____ and spent it on understanding the true nature of life and its purpose have left us with a (5)_____ collection of religious books and wise thoughts.*

---

24. **Answer: c**

Explanation:

The correct answer is **'pleasures'**

⭐ **Key Points**

- People who made the right use of time by not wasting it on worldly (4)_____ and spent it on
- Let's see the meanings of the given words-
  - **Laughter-** the act or sound of laughing
  - **Subjects-** the thing that is being discussed, considered, or studied
  - **Pleasures-** enjoyment, happiness, or satisfaction, or something that gives this
  - **Chances-** an occasion that allows something to be done
- Hence, according to the meanings of the given words, the correct answer is **Option 3 i.e. pleasures.**

So the correct passage will be:- *Time is very precious and must not be wasted on petty matters that have (1) no value in our lives. People keep money in safes but time (2) can't be saved in this way. Time can be saved and utilized only by being alert, (3) spending it very carefully, and being conscious of its passage. People who made the right use of time by not wasting it on worldly (4) pleasures and spent it on understanding the true nature of life and its purpose have left us with a (5)_____ collection of religious books and wise thoughts.*

---

25. **Answer: d**

Explanation:

The correct answer is **'rich'**

⭐ **Key Points**

- and its purpose have left us with a (5)_____ collection of religious books and wise thoughts.
- In the given sentence, we need to use a positive degree of adjective. Also, the article is written for the noun not for the adjective the noun is 'collection' it is written in an attributive manner i.e. a/an + adjective + noun
- So the correct answer is Option 4 i.e. rich.

Hence, the correct passage will be:- *Time is very precious and must not be wasted on petty matters that have (1) no value in our lives. People keep money in safes but*

time (2) can't be saved in this way. Time can be saved and utilized only by being alert, (3) spending it very carefully, and being conscious of its passage. People who made the right use of time by not wasting it on worldly (4) pleasures and spent it on understanding the true nature of life and its purpose have left us with a (5) rich collection of religious books and wise thoughts.

---

26. **Answer: c**

Explanation:

Statements:

All pigeons are crows.

No crow is a bird.

The least possible diagram for the given statements is as follows

Conclusions:

I. Some crows are pigeons → True (because all pigeons are crows and so some crows are also pigeons)

II. Some pigeons are birds → False (because all pigeons are crows and no crow is a bird so no pigeon is also a bird)

III. No pigeon is a bird → True (because all pigeons are crows and no crow is a bird so no pigeon is also a bird)

Hence, "**Only conclusions I and III follow**".

---

27. **Answer: c**

Explanation:

The Venn diagrams best represent the relationship between - Motorcycles, Vehicles, Scooters figures are shown below:
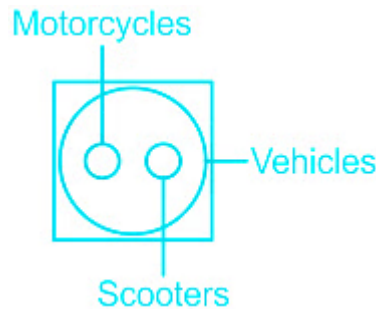
All motorcycles and scooters are vehicles but no motorcycle is a scooter.

motorcycles and scooters both are different vehicles.

Hence, ' option 3' is the correct answer.

---

28. **Answer: c**

Explanation:

Total five iron balls: – P, Q, R, S and T

1) **The weight of Q is 5 kg, which is double the weight of P.**

=> Q = 5 kg ---------- **eq. (1)**

And,

=> Q = 2P kg

So, P = Q / 2 = 5 / 2 = 2.5 kg ---------- **eq. (2)**

2) **The weight of S is half the weight of T.**

=> S = T / 2 kg ---------- **eq. (3)**

3) The weight of R is equal to the weight of P and Q taken together.

=> R = P + Q = 2.5 + 5 = 7.5 kg ---------- eq. (4) (Value of P and Q taken from eq. (2) and (1))

4) The weight of T is four times the weight of R.

=> T = 4R = 4 × 7.5 = 30 kg ---------- eq. (5)

From eq. (3),

=> S = T / 2

=> S = 30 / 2 (Value of T is taken from eq. (5))

=> S = 15 kg

Hence, weight of the S is **"15 kg"**.

---

29. **Answer: a**

Explanation:

According to the 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 : + and −

Given:

32 + 14 × 3 − 91 ÷ 7 = 3

After interchange the signs;

32 − 14 × 3 + 91 ÷ 7 = 3

By BODMAS rule

32 − 14 × 3 + 13 = 3

32 − 42 + 13 = 3

45 − 42 = 3

3 = 3 (LHS = RHS)

Option 2 : + and ×

Given:

32 + 14 × 3 − 91 ÷ 7 = 3

After interchange the signs;

32 × 14 + 3 − 91 ÷ 7 = 3

By BODMAS rule

32 × 14 + 3 − 13 = 3

448 + 3 − 13 = 3

451 − 13 = 3

438 = 3 (LHS ≠ RHS)

Option 3 : ÷ and −

Given:

32 + 14 × 3 − 91 ÷ 7 = 3

After interchange the signs;

32 + 14 × 3 ÷ 91 − 7 = 3

By BODMAS rule

32 + 14 × 0.33 – 7 = 3

32 + 4.62 – 7 = 3

36.62 – 7 = 3

29.62 = 3 (LHS ≠ RHS)

Option 4 : ÷ and ×

Given:

32 + 14 × 3 − 91 ÷ 7 = 3

After interchange the signs;

32 + 14 ÷ 3 − 91 × 7 = 3

By BODMAS rule

32 + 4.67 − 91 × 7 = 3

32 + 4.67 − 637 = 3

36.67 − 637 = 3

600.33 = 3 (LHS ≠ RHS)

Hence, the answer is **" + and − "**.

---

30. **Answer: a**

Explanation:

The pattern followed here is:

$$68 \quad 77 \quad 89 \quad 105 \quad \boxed{126} \quad 153$$

$$+9 \quad +12 \quad +16 \quad +21 \quad +27$$

$$+3 \quad +4 \quad +5 \quad +6$$
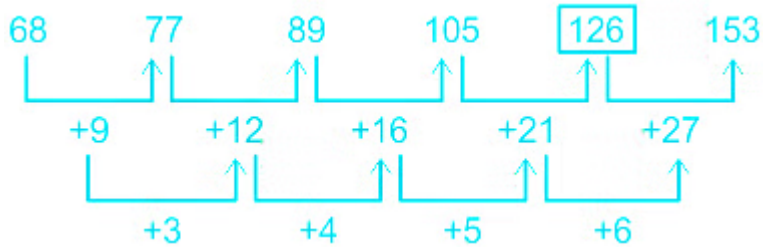
Hence, '126' is the correct answer.

---

31. Answer: d

Explanation:

Given:

Vinita, Anita, Preeti and Kunjan are dining around a square table facing the centre. Each friend is sitting at the middle of one of the four sides.

1) Kunjan is sitting to the left of Anita.
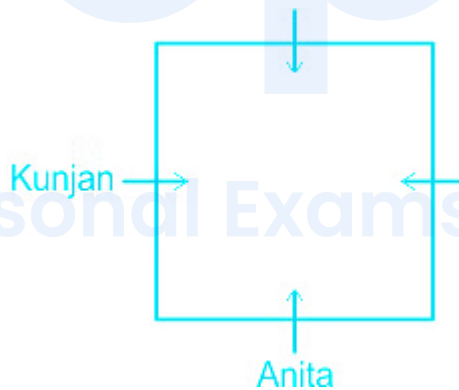
2) Preeti is sitting to the right of Vinita.
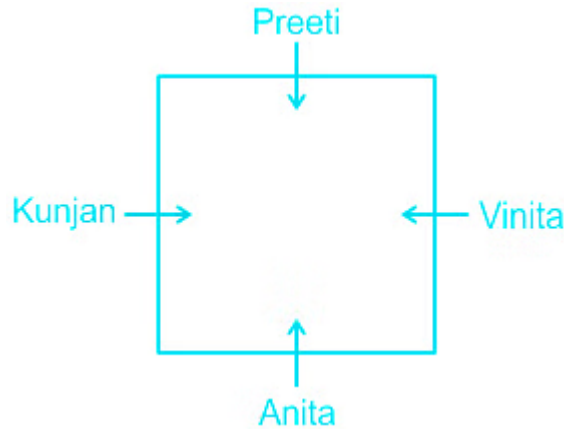
Hence, **"Preeti"** is sitting to the left of Kunjan.

---

32. Answer: b

Explanation:

The table is alphabets place value:

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 here is:

'PLANT' is written as 'OJXJO'

P(16) L(12) A(1) N(14) T(20)

-1 | -2 | -3 | -4 | -5 |

O(15) J(10) X(24) J(10) O(15)

Similarly,

'FORTE' = ?

$$F(6) \quad O(15) \quad R(18) \quad T(20) \quad E(5)$$

$$-1 \quad -2 \quad -3 \quad -4 \quad -5$$

$$E(5) \quad M(13) \quad O(15) \quad P(16) \quad Z(26)$$

Hence, ' FORTE ' is coded as "EMOPZ ".

---

33. Answer: c

Explanation:

The table is alphabets place value:

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 here is:

'DOSIER' is written as 'DEIORS'

$$D(4) \quad O(15) \quad S(19) \quad I(9) \quad E(5) \quad R(18)$$

Alphabets are arranged in Ascending order

$$D(4) \quad E(5) \quad I(9) \quad O(15) \quad R(18) \quad S(19)$$

And,

'LOGIC' is written as 'CGILO'

L(12) O(15) G(7) I(9)　C(3)

Alphabets are arranged in Ascending order

C(3)　G(7)　I(9)　L(12)　O(15)

Similarly,

'CORTEX' = ?

C(3) O(15) R(18) T(20) E(5) X(24)

Alphabets are arranged in Ascending order

C(3)　E(5)　O(15) R(18) T(20) X(24)
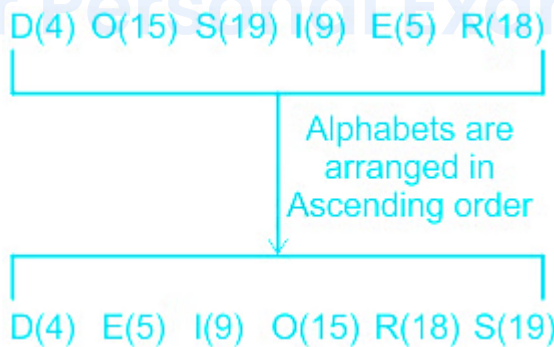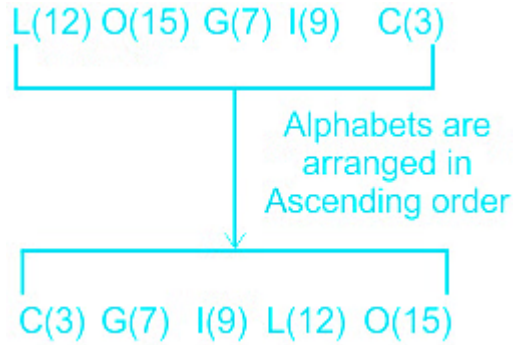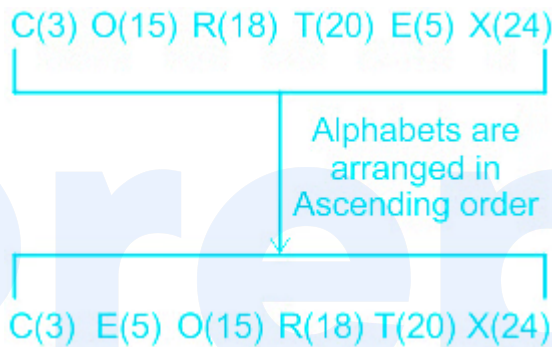
Hence, 'COKE' is coded as **"CEORTX"**.

---

34. **Answer: d**

Explanation:

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

The logic here is,

PRANIC : SQOBDJ

P(16) R(18) A(1) N(14) I(9) C(3)

+1 ╳ +1 +1 ╳ +1 +1 ╳ +1

S(19) Q(17) O(15) B(2) D(4) J(10)

Similarly,

SORBID: ?

S(19) O(15) R(18) B(2) I(9) D(4)

+1 ╳ +1 +1 ╳ +1 +1 ╳ +1

P(16) T(20) C(3) S(19) E(5) J(10)
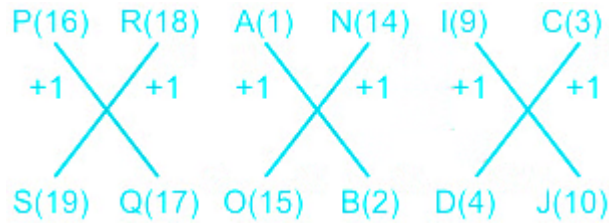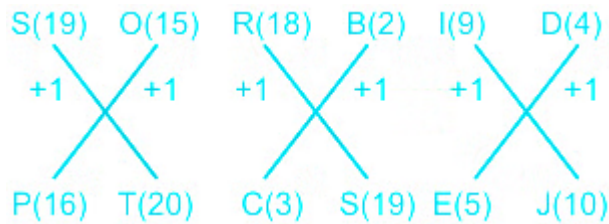
Hence, "**PTCSEJ**" is the correct answer.

---

35. **Answer: a**

Explanation:

Here the pattern followed in **each row** is:

(1st number − 2nd number) ÷ 2 = 3rd number

Row 1: 445 285 80

(1st number − 2nd number) ÷ 2 = 3rd number

= (445 − 285) ÷ 2

= 160 ÷ 2

= 80 = 3rd number

Row 2: 550 332 109

(1st number − 2nd number) ÷ 2 = 3rd number

= (550 – 332) ÷ 2

= 218 ÷ 2

= 109 = 3 rd number

Similarly,

Row 3: 655 441 ?

(1st number – 2nd number) ÷ 2 = 3 rd number

= (655 – 441) ÷ 2

= 214 ÷ 2

= 107 = 3 rd number

Hence, "107" is correct answer.

---

36. **Answer: d**

Explanation:

The correct mirror image of the given figure when the mirror is held at the right side is:

$$\text{G u P 4 t R} \quad | \quad \text{Я t 4 Ꟁ u Ǝ}$$
M (top) / N (bottom)

Hence, "option (4)" is the correct answer.

⭐ **Alternate Method**

In Mirror image left side and right side changed vice-versa where top and bottom remain same.

Reflection of an object into the water is its water image . It appears by inverting an object vertically i.e. upside down.

The water image of the figure looks like the mirror image of the figure in case the mirror is horizontally at the bottom o f the figure.

Water image is just a reflection where top and bottom part of the images changed where left and right side of the image remain same.

---

37. **Answer: a**

Explanation:

The logic followed here is:

Lazy : Hard-working → **Hardworking** is the **antonym** of **Lazy.**

Similarly,

Wealthy : Penniless → Penniless is the **antonym** of **Wealthy.**

Hence, **' Penniless '** is the correct answer.

---

38. **Answer: b**

Explanation:

According to the 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 : 63 and 36

Given:

$72 + 63 ÷ 9 × 5 − 36 = 67$

After interchange the signs;

$72 + 36 ÷ 9 × 5 − 63 = 67$

By BODMAS rule

$72 + 4 × 5 − 63 = 67$

$72 + 20 − 63 = 67$

$92 − 63 = 67$

$29 = 67$ **(LHS ≠ RHS)**

Option 2 : 63 and 72

Given:

$72 + 63 ÷ 9 × 5 − 36 = 67$

After interchange the signs;

$63 + 72 ÷ 9 × 5 − 36 = 67$

By BODMAS rule

$63 + 72 ÷ 9 × 5 − 36 = 67$

63 + 8 × 5 − 36 = 67

63 + 40 − 36 = 67

103 − 36 = 67

67 = 67 (LHS = RHS)

Option 3 : 5 and 36

Given:

72 + 63 ÷ 9 × 5 − 36 = 67

After interchange the signs;

72 + 63 ÷ 9 × 36 − 5 = 67

By BODMAS rule

72 + 7 × 36 − 5 = 67

72 + 252 − 5 = 67

322 − 5 = 67

317 = 67 (LHS ≠ RHS)

Option 4 : 72 and 36

Given:

72 + 63 ÷ 9 × 5 − 36 = 67

After interchange the signs;

36 + 63 ÷ 9 × 5 − 72 = 67

By BODMAS rule

36 + 63 ÷ 9 × 5 − 72 = 67

36 + 7 × 5 − 72 = 67

36 + 35 − 72 = 67

71 − 72 = 67

1 = 67 **(LHS ≠ RHS)**

Hence, the answer is **" 63 and 72 "**.

---

39. Answer: a

Explanation:

The embedded part of this image is:

Hence, option (1) is the correct answer.

---

40. Answer: d

Explanation:

The image obtained when the paper is unfolded is,

Hence, " option 4" is the correct answer.

---

41. Answer: c

Explanation:

The figure that will replace the question mark (?) in the following figure series is shown below:
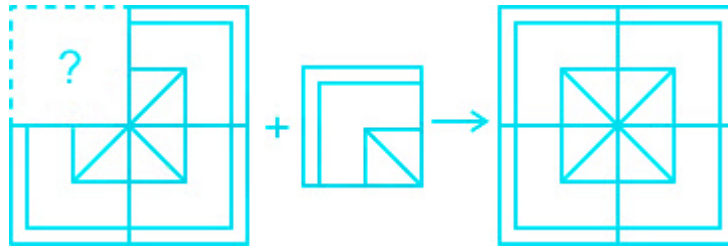
Hence, ' option 3 ' is the correct answer.

---

42. **Answer: d**

Explanation:

The table is alphabets place value:

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 here is:

1) All alphabets opposite alphabets place value coded as number except middle alphabet.

2) Middle alphabet place value coded as the number.

'BOXER' is written as '251224229'

B(2) O(15) X(24) E(5) R(18)

Opposite | Opposite | Same | Opposite | Opposite

Y(25) L(12) X(24) V(22) I(9)

25   12   24   22   9

Similarly,

'PULLY' = ?

P(16) U(21) L(12) L(12) Y(25)

Opposite | Opposite | Same | Opposite | Opposite

K(11) F(6) L(12) O(15) B(2)
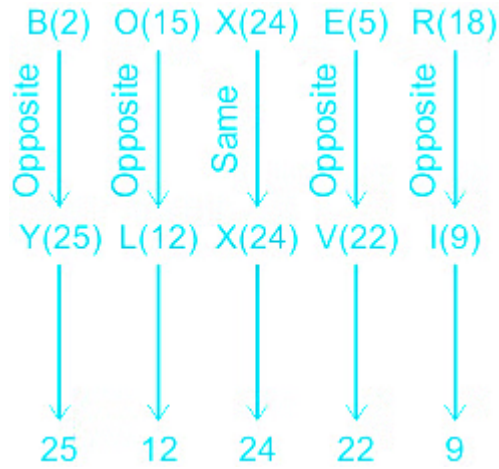
11   6   12   15   2

Hence, 'PULLY' is coded as "11612152".

---

43. **Answer: c**

Explanation:

The logic followed here is:

Hibiscus : Flower → Hibiscus is the type of Flower .

Similarly,

Penguin : Bird → Penguin is the type of Bird.

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

---

44. Answer: a

Explanation:

The table is alphabets place value:

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 here is:

Step 1: Consonants alphabets place value coded as the number.

Step 2: Vowel's coded as position number of vowel's position like,

A = 1; E = 2; I = 3; O = 4; U = 5

Vowel order value :
A   E   I   O   U
↓   ↓   ↓   ↓   ↓
1   2   3   4   5

'WORSHIP' is written as '23418198316'

And
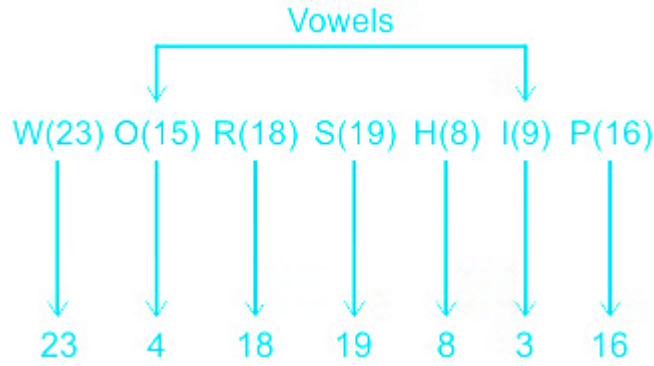
'ROAD' is written as '18414'
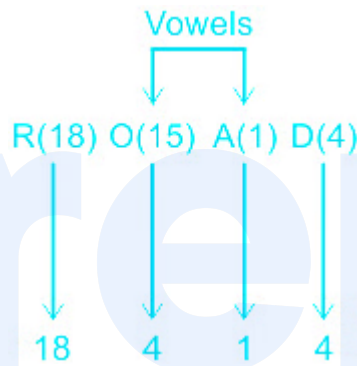
Similarly,

REDUCE = ?
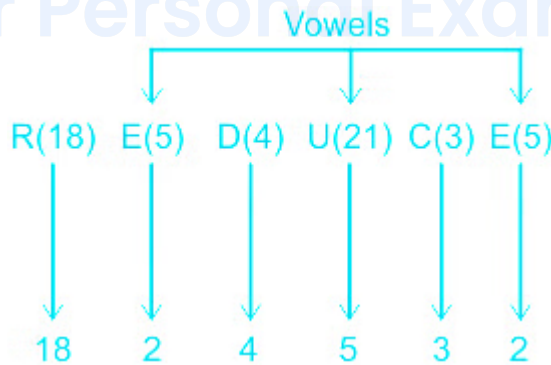
Hence, 'REDUCE' is coded as **"1824532"**.

---

45. **Answer: a**

Explanation:

Given:

Total Six friends facing north:-   G, H, M, J, K and L

1) H is fourth to the right of M. K is to the immediate right of H.

2) G is sitting between L and H.

Only J is remaining so the final sitting arrangment is

Hence, 'J' is sitting between L and M .

46. **Answer: a**

Explanation:

The pattern followed here is,

Let (1st number : 2nd number)

(1st number)^2 + (1st number + 1) = 2nd number

Now follow the steps:

20 : 421

$\Rightarrow 20^2 + (20 + 1) = 400 + 21 = 421 = 2^{nd}$ number

Similarly,

18 : ?

$\Rightarrow 18^2 + (18 + 1) = 324 + 19 = 343 = 2^{nd}$ number

Hence, **"343"** is correct answer.

---

47. **Answer: b**

Explanation:

Table show alphabet serial number –

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 is,

Y(25) T(20) M(13)

+2 ↓   -3 ↓   +4 ↓

A(1) Q(17) Q(17)

+2 ↓   -3 ↓   +4 ↓

C(3) N(14) U(21)

+2 ↓   -3 ↓   +4 ↓

E(5) K(11) Y(25)

+2 ↓   -3 ↓   +4 ↓

G(7) H(8)   C(3)
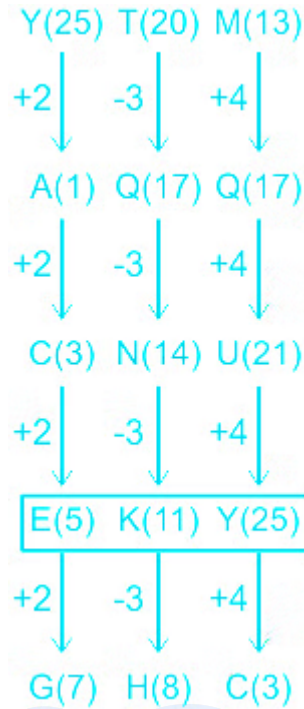
Hence, "EKY" is the missing term that completes the series.

---

48. **Answer: a**

Explanation:

Statements:

All machines are refrigerators.

All refrigerators are geysers.

The least possible diagram for the given statements is as follows

Geysers

Refrigerators
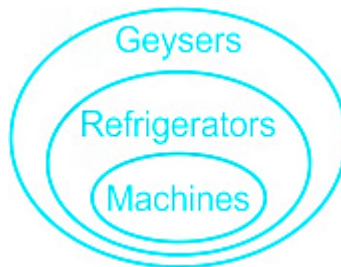
Machines

Conclusions:

I. Some machines are not geysers → False (It is not possible because all machines are refrigerators and all refrigerators are geysers so some machines are definitely geyser)

II. Some geysers are machines → True (because all machines are refrigerators and all refrigerators are geysers so some geysers are definitely machines)

- Some + Some not - It is not a complementary pair.

Hence, "**Only conclusion II follows**".

⭐ **Important Points**

Conditions of Either-or case:

1. Individually both the conclusions should be false.

2. One conclusion should be positive and one conclusion should be negative (Complementary pair)

The two complementary pairs are:

1) All + Some not

2) No + Some

- Some + Some not - It is not a complementary pair.

---

49. **Answer: d**

Explanation:

The figure that will replace the question mark (?) in the following figure series is shown below:

1) Upper three small figures interchange their position in an anti-clockwise direction.

2) Lower small figures interchange their positions.
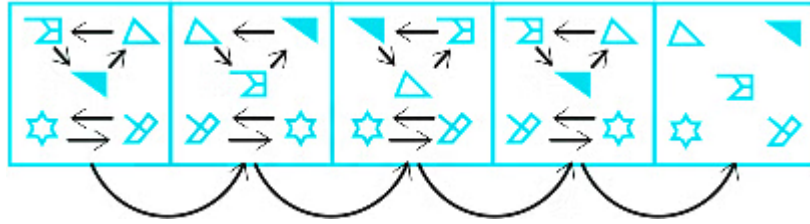
Final series is

Hence, 'option 4' is the correct answer.

---

50. Answer: a

Explanation:

The pattern followed here is:
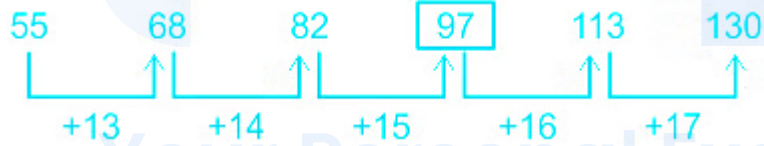
Hence, '97' is the correct answer.

---

51. Answer: b

Explanation:

Given

Money divided among A, B, C and D = Rs. 4095

Concept

If A : B = m : n, B : C = o : p, C : D = q : r

then, A : B : C : D = moq : noq : npq : npr

Calculation

Ratio of A : B : C : D = 1 × 2 × 2 : 3 × 2 × 2 : 3 × 5 × 2

⇒ 4 : 12 : 30 : 45

Share of B = (12/91) × 4095

⇒ Rs. 540

Share of D = (45/91) × 4095

⇒ Rs. 2025

Required difference = Rs.(2025 – 540)

⇒ Rs. 1485

∴ The difference between the shares of B and D is Rs. 1485.

---

52. **Answer: c**

Explanation:

Given

Length of first train = 248 m

length of second train = x m

Speed of first train = 88 km/h

Speed of second train = 34 km/h

Time = 30 second

Formula Used

Relative speed of train = (Speed of first train - speed of second train)

when trains are moving in same direction

Time = Distance/Speed

Calculation

Relative speed = (88 – 34) km/h

54 km/h

$\Rightarrow$ (54 × 1000)/(60 × 60) m/s

$\Rightarrow$ 15 m/s

Total distance travelled by train = 248 + x

Time = (248 + x)/15

$\Rightarrow$ 30 = (248 + x)/15

$\Rightarrow$ 450 = 248 + x

$\Rightarrow$ x = 450 – 248

$\Rightarrow$ x = 202 m

$\therefore$ Length of second train is 202 m long.

---

53. **Answer: b**

Explanation:

Name of sporting	Number of students
Bad minton	125
Tennis	75
Chess	90
Cricket	115
Hockey	195
Total	600

Average number of students playing tennis and hockey = $\frac{(75+195)}{2}$

⇒ 135

Number of students playing badminton = 125

Required percentage = $\frac{(135-125)}{125}$ × 100

⇒ 8%

∴ The average number of students playing tennis and hockey is 8% more than the number of students playing badminton.

⭐ Alternate Method

Tennis = 45°

Hockey = 117°

Badminton = 75°

Average of Tennis and Hockey = (45° + 117°)/2 = 162°/2 = 81°

Required Percentage = [(81° – 75°)/75°] × 100 = 8%

---

54. Answer: b

Explanation:

Given

Selling price = Rs.640

Loss = 12 %

Formula used

Selling price = Cost price - loss

when there is loss

or Selling Price = Cost price + Profit

when there is profit

Calculation

Let the cost price is Rs.x

640 = x - 12% of x

⇒ 640 = 88x/100

⇒ x = (640 × 100)/88

⇒ x = Rs. 727.27

When there is a profit of 21%.

Selling Price = 727.27 + 21% of 727.27

⇒ Rs. 880

∴ Article should be sell at Rs.880 to gain 21%.

---

55. **Answer: c**

Explanation:

Given

Sides of triangle = 96m, 110m, and 146 m

Formula used

$s = \frac{(a+b+c)}{2}$

s is semi perimeter, where a, b, and c are sides of the triangle.

Area of triangle = $\sqrt{s(s-a)(s-b)(s-c)}$

Calculation

$s = \frac{(96+110+146)}{2}$

⇒ 176

Area of triangle = $\sqrt{176 (176 - 96)(176 - 110)(176 - 146)}$

⇒ $\sqrt{176 \times 80 \times 66 \times 30}$

⇒ 5280 m ^{2}

Cost of levelling the field = 5280 × Rs.5.60

⇒ Rs.29,568

∴ The cost of levelling the field is Rs.29,568 .

---

56. Answer: b

Explanation:

Concept

To find the least number first take the L.C.M of the given number.

Calculation

L.C.M of 8,12, 15, 24, 25 and 40 is 600.

x = 600 + 7

x = 607

∴ When 607 is divided by 29, then remainder is 27.

---

57. Answer: c

Explanation:

Given

A and B working together can complete 45% of work in 18 days,.

A alone complete a work in 60 days

Calculation

9/20th work in 18 days by A and B together.

work done in 18 days by A and B = 9/20

work done in 1 day by A and B = 0.025

work done by A and B in one day = 1/40

work done by A in one day = 1/60

let the work done by B alone is x days.

(1/60) + (1/x) = (1/40)

(1/x) = (1/40) – (1/60)

(1/x) = (3 –2)/120

$(1/x) = (1/120)$

x = 120 days

B will take 120 days to complete a work.

Total units of work(L.c.m of 60 and 120) = 120 units

A,s efficiency = 120/60

⇒ 2 units

(A and B)'s efficiency together = 120/40

⇒ 3 units

B's efficiency = 120/120

⇒ 1 units

work done by A and B together in 16 days = 16 × 3

⇒ 48 units

remaining work done by B = 120 – 48

⇒ 72 units

so, B will done remaining work in = 72/1

⇒ 72 days

∴ Remaining work done by B in 72 days.

---

58. **Answer: d**

Explanation:

Given

(x + 25)% of 270 is 20% more than x% of 240

Calculation

(x + 25)% of 270 = x% of 240 + 20% of x% of 240

(x + 25)% × 270 = 240x/100 + 48x/100

$$\Rightarrow \frac{270(x+25)}{100} = \frac{240x}{100} + \frac{48x}{100}$$

$$\Rightarrow \frac{270(x+25)}{100} = \frac{288x}{100}$$

⇒ 270x + 6750 = 288x

⇒ 6750 = 18x

⇒ x = 375

12% of (x + 125)

⇒ 12% of (375 + 125)

⇒ 12% of 500

⇒ 60

10% of x

⇒ 10% of 375

⇒ 37.5

Required percentage = $\frac{(60-37.5)}{37.5}$ × 100

$\frac{22.5}{37.5}$ × 100

⇒ 60

∴ 12% of (x + 125) is 60% more than 10% of x.

59. **Answer: d**

Explanation:

Concept

BODMAS rule

Calculation

$$\frac{\frac{8}{3} \div \frac{3}{5} \times \frac{7}{5}}{\frac{5}{3} \div \frac{5}{7} \times \frac{8}{9}} \div 6$$

$$\frac{\left(\frac{8}{3} \times \frac{5}{3} \times \frac{7}{5}\right)}{\left(\frac{5}{3} \times \frac{7}{5} \times \frac{8}{9}\right)} \times \frac{1}{6}$$

$$\frac{\frac{56}{9}}{\frac{56}{27}} \times \frac{1}{6}$$

$$\frac{56}{9} \times \frac{27}{56} \times \frac{1}{6}$$

$$\frac{1}{2}$$

$\therefore$ The value of $\dfrac{\frac{8}{3} \div \frac{3}{5} \times \frac{7}{5}}{\frac{5}{3} \div \frac{5}{7} \times \frac{8}{9}} \div 6$ is $\frac{1}{2}$

---

60. **Answer: a**

Explanation:

Given

Discount % = 16

Cost price = Rs.318

Formula used

Profit = SP – CP, When CP < SP

Loss = CP – SP, When CP > SP

Selling price = Market Price – Discount

Calculation:

Profit = SP – CP,

Selling price = Cost price + 26% of 318

⇒ 318 + 82.68

⇒ Rs.400.68.   ---- (1)

Let x is the market price

Selling price = x – 16% of x

$\frac{84x}{100}$ = 400.68 from (1)

x = $\frac{(400.68 \times 100)}{84}$

x = Rs.477

∴ **The market price of the good is Rs. 477** .

⭐ <u>Shortcut Trick</u>

MP = CP(100 + profit%)/(100 – Discount%)

⇒ MP = 318(100 + 26)/(100 – 16)

⇒ MP = 318 × 126/84

⇒ MP = Rs. 477

∴ The market price of the good is Rs. 477 .

⭐ <u>Alternate Method</u>

Relation Between CP and MP

CP : MP

(100 – D%) : (100 + P%)

(100 – 16) : (100 + 26)

84 : 126

2 : 3

CP = 2 units

MP = 3 units

2 units = Rs. 318 (Given)

1 unit = Rs. 159

3 units = 159 × 3 = Rs. 477

---

61. **Answer: a**

Explanation:

Given

X is 60% more efficient than Y.

Y alone can do a work in 80 days

Concept

Efficiency is inverse related to time .

Work done = efficiency × time

Calculation

Let the efficiency of Y is 100

So, the efficiency of X is 160

Ratio of efficiency, X : Y = 160 : 100

⇒ 8 : 5

It is inversely related to time

Ratio of efficiency = Ratio of time

8 : 5 = 80 : x

⇒ 8x = 80 × 5

⇒ x = 50

X can complete a work in 50 days.

Total work (L.C.M of 50 and 80) = 400

52% of work = 52% of 400

⇒ 208 units

Time = $\frac{Efficiency}{work}$

⇒ $\frac{208}{(8+5)}$

⇒ $\frac{208}{13}$

⇒ 16 days

∴ X and Y will complete 52% of the same work in 16 days.

---

62. **Answer: d**

Explanation:

Given

Distance = 450 km

Time = (1/8) × speed

Formula used

Time = Distance/Speed

Calculation

Let the speed pf a car is x km/h

so, time is (x/8) km/h.

(x/8) = (450/x)

$\Rightarrow x^2 = 450 \times 8$

$\Rightarrow\ x^2 = 3600$

$\Rightarrow\ x = 60$

Time = (1/8) × 60

Time = 15/2

Time = $7\frac{1}{2}$ hours

∴ Time taken by car to cover the distance is $7\frac{1}{2}$ hours.

---

63. **Answer: a**

Explanation:

Given

Simple interest = Rs 8160

Rate of interest, r for first 2 years = 5% p.a.

Rate of interest, r fir next 3 years = 9% p.a.

Rate of interest, r for next 5 years = 13% p.a.

Formula used

Simple Interest = $\frac{(Principal \times rate \times time)}{100}$

Calculation

$160 = \frac{(p \times 2 \times 5)}{100} + \frac{(P \times 3 \times 9)}{100} + \frac{(P \times 5 \times 13)}{100}$

$\Rightarrow 8160 = \frac{10P}{100} + \frac{27P}{100} + \frac{65P}{100}$

$\Rightarrow 8160 = \frac{102P}{100}$

$\Rightarrow P = \frac{(8160 \times 100)}{102}$

$\Rightarrow P = Rs\ 8000$

∴ **The principal is Rs 8000.**

---

64. Answer: d

Explanation:

Given

Average score of A, B and C is 78

Average score of C, D and E IS 52.

Average score of E and F is 48

Average score of E and C is 60

Concept

Average = $\frac{Sum\ of\ all\ observation}{Number\ of\ observation}$

Calculation

$\frac{(A+B+C)}{3} = 78$

$\Rightarrow A + B + C = 234$

$\frac{(C+D+E)}{3}$ = 52

$\Rightarrow$ C + D + E = 156.   ---- (1)

$\frac{(E+F)}{2}$ = 48

E + F = 96

$\Rightarrow$ E = 96 – F.   ---- (2)

$\frac{(E+C)}{2}$ = 60

E + C = 120

$\Rightarrow$ E = 120 – C.   ---- (3)

From (2) and (3)

96 – F = 120 – C

$\Rightarrow$ 96 – 120 = – C + F

$\Rightarrow$ F + 24 = C.   ---- (4)

From (1) and (4)

F + 24 + D + 96 – F = 156

$\Rightarrow$ D = 156 – 120

$\Rightarrow$ D = 36

A + B + C = 234

D = 36

E + F = 96

So, Average of A,B,C,D E and F = $\frac{(234+36+96)}{6}$

$\Rightarrow$ $\frac{366}{6}$

$\Rightarrow$ 61

∴ T he average score of A, B, C, D, E and F is 61.

---

65. **Answer: a**

Explanation:

Concept:

Number of student in a sport = (Degree/360º) × 600

Name of sports	Number of students
Badminton	125
Tennis	75
Chess	90
Cricket	115
Hockey	195

∴ The difference between the number of students playing chess and badminton is 35.i.e (125 – 90).so, the value of x lies between 32 and 38.

---

66. **Answer: c**

Explanation:

Given

39 – [30 – {33 – (19 – 4 ÷ 3 of 8 × 6)}]

Concept used

BODMAS rule,

In the beginning solve the bracket values.

Secondary solve the values of 'OF'

Next solve the Division values

Afterwards, Multiply values

And last, solve the addition and subtraction values.

Calculation

39 – [30 – {33 – (19 – 4 ÷ 24 × 6)}]

⇒ 39 – [30 – {33 – (19 – 4 × $\frac{1}{24}$ × 6)}]

⇒ 39 – [30 – {33 – (19 – 1)}]

⇒ 39 – [30 – {33 – (18)}]

⇒ 39 – [30 – 15]

⇒ 39 – (15)

⇒ 24

∴ The value of 39 − [30 − {33 − (19 − 4 ÷ 3 of 8 × 6)}] is 24.

---

67. **Answer: d**

Explanation:

Given

Ratio of acid to water in solution A = 2 : 7

Ratio of acid to water in solution B = 4 : 5

Concept

In new solution, 4 parts are taken from A solution and 3 parts are taken from B solution. Therefore to find the quantity of acid to water in third solution 4 will be multiplied when acid and water taken from solution A and '3' will be multiplied when acid and water taken from solution B.

Calculation

Quantity of Acid in resulting solution = $\frac{2}{9} \times 4 + \frac{4}{9} \times 3$

$\Rightarrow$ (8/9) + (12/9)

$\Rightarrow \frac{20}{9}$

Quantity of water in resulting solution = $\frac{7}{9} \times 4 + \frac{5}{9} \times 3$

$\frac{28}{9} + \frac{15}{9}$

$\Rightarrow \frac{43}{9}$

Ratio of acid to water in resulting solution = $\frac{20}{9} : \frac{43}{9}$

$\Rightarrow 20 : 43$

$\therefore$ The ratio of acid to water in the resulting solution is 20 : 43

68. **Answer: c**

Explanation:

Given

$(11a\ 3 - 15b\ 3) : (10a\ 3 + 4b\ 3) = 5 : 7$

Calculation

$\frac{(11a^3 - 15b^3)}{(10a^3 + 4b^3)} = \frac{5}{7}$

$7(11a\ 3 - 15b\ 3) = 5(10a\ 3 + 4b\ 3)$

⇒ 77a³ – 105b³ = 50a³ + 20b³

⇒ 27a³ = 125b³

⇒ $\frac{a^3}{b^3} = \frac{125}{27}$

⇒ $\frac{a}{b} = \frac{5}{3}$

⇒ a = $\frac{5b}{3}$

$(9 \times \frac{5b}{3} + 5b) : (5 \times \frac{5b}{3} - 3b)$

$(3 \times 5b + 5b) : (\frac{25b}{3} - 3b)$

⇒ 20b : $\frac{16b}{3}$

$(\frac{20b}{1}) \times (\frac{3}{16b})$

⇒ 15 : 4

∴ (9a + 5b) : (5a – 3b) is equal to 15 : 4

---

69. **Answer: a**

Explanation:

Name of sport	Number of students
Badminton	125
Tennis	75
Chess	90
Cricket	115
Hockey	195
Total	600

Number of males student in Hockey = $\left(\frac{6}{13}\right) \times 195$

⇒ 90

Number of males student in Tennis = 60% of 75

⇒ 45

∴ Total number of male student in Hockey and Tennis is 135 i.e. (90 + 45)

---

70. **Answer: d**

Explanation:

Given:

Selling price of article A and B = 4000 each

Formula used:

Selling price = Cost price + Profit, when C.P < S.P

Selling price = Cost price - Loss, when C.P. > S.P

Loss% = (loss/cost price) × 100

Calculation:

Selling price of article A and B together = Rs. 8000

let the cost price of article A = Rs. x

Selling price of article A = x + 25% of x

4000 = 125x/100

x = (4000 × 100)/125

x = Rs.3200

Cost price of article A = Rs. 3200

As there is no profit or loss in the entire transactions. so, cost price is equal to selling price.

Cost price of article B = Rs.(8000 - 3200)

⇒ Rs.4800

Selling price of article B = Rs.4000

Loss = Rs 4800 - Rs. 4000

⇒ Rs. 800

Loss % = (800/4800) × 100

⇒ $16\frac{2}{3}$

∴ B is sold at a loss of $16\frac{2}{3}$ % .

⭐ **Alternate Method**

Total SP = Rs. 8000 and Total CP = Rs. 8000

SP of 1st articles = Rs. 4000

Gain on it = 25%

CP of 1st articles = Rs. (4000 × 100/125) = Rs. 3200

CP of 2nd articles = Rs. (8000 − 3200) = Rs. 4800

SP of 2nd articles = Rs. 4000

∴ Loss on 2nd articles = (800/4800 × 100)

⇒ 50/3 = $16\frac{2}{3}$

∴ B is sold at a loss of $16\frac{2}{3}$ % .

71. **Answer: b**

Explanation:

Given

Average age of A, B, and C three years ago = 29 years

Average age of B and C, five years ago = 23 years

Formula used

Average = Sum of all observation/Number of all observation

Calculation

Let the present age of A, B and C is x, y and z years.

Age three years ago, $(x-3)$, $(y-3)$ and $(z-3)$ years

According to question

$[(x-3) + (y-3) + (z-3)]/3 = 29$

$\Rightarrow (x-3) + (y-3) + (z-3) = 87$

$\Rightarrow x + y + z = 87 + 9$

$\Rightarrow x + y + z = 96$ ---- (1)

$[(y-5) + (z-5)]/2 = 23$

$\Rightarrow y - 5 + z - 5 = 46$

$y + z = 56$ ---- (2)

from (1) and (2)

$x + 56 = 96$

$\Rightarrow x = 96 - 56$

$\Rightarrow$ x = 40

∴ The present age of A is 40 years.

---

72. Answer: c

Explanation:

Concept used

BODMAS

Calculation

$\frac{5}{8} \div \left(\frac{8}{11} \times 2\frac{3}{4} \div \frac{4}{9} \right) + 5\frac{1}{3} \div \left(5\frac{1}{4} \div \frac{3}{8} \times \frac{3}{7} \right)$ of $1\frac{7}{9}$

$\frac{5}{8} \div \left(\frac{8}{11} \times \frac{11}{4} \times \frac{9}{4} \right) + \frac{16}{3} \div \left(\frac{21}{4} \times \frac{8}{3} \times \frac{3}{7} \right) of \frac{16}{9}$

$\frac{5}{8} \div \left(\frac{9}{2} \right) + \frac{16}{3} \div (6) \times \frac{16}{9}$

$\frac{5}{8} \times \frac{2}{9} + \frac{16}{3} \div \left(6 \times \frac{16}{9} \right)$

$\frac{5}{36} + \frac{16}{3} \times \frac{3}{32}$

$\frac{5}{36} + \frac{1}{2}$

$\frac{(5+18)}{36}$

$\frac{23}{36}$

∴ The value of $\frac{5}{8} \div \left(\frac{8}{11} \times 2\frac{3}{4} \div \frac{4}{9} \right) + 5\frac{1}{3} \div \left(5\frac{1}{4} \div \frac{3}{8} \times \frac{3}{7} \right)$ of $1\frac{7}{9}$ is $\frac{23}{36}$

---

73. Answer: b

Explanation:

Given

3, 8, 7, 12, 4, 3, 16, 20, 23, 10, 9, 15, 2, 7

Concept

first arrange the data either in ascending or descending order to find the median.

Median = [(n/2)th + (n/2 + 1)th] /2

Calculation

Data in ascending order

2,3,3,4,7,7,8,9,10,12,15,16,20,23

Median = [(14/2) th term + (14/2 + 1) th term]/2

⇒ (7th term + 8th term)/2

⇒ (8 + 9)/2

⇒ 8.5

Range = Upper limit - Lower limit

⇒ 23 - 2

⇒ 21

Mean = (8.5 + 21)/2

⇒ 29.5/2

⇒ 14.75

∴ The mean of the median and range of the data is 14.75.

---

74. **Answer: d**

Explanation:

Given

Principal = Rs, 12,000

Rate of interest, r = 18%

Time = $1\frac{1}{3}$ years

Concept

Rate accordingly 8 monthly, rate is 18 × 8/12

⇒ R = 12%

Time is 12 + 12/3 = 16 month, T = 16/8 = 2.

Formula used

C.I. = P(1 + R%)^T – P

Calculation

Time = 2

Rate = 12%

C.I. = 12000(1 + 12%)^2 – 12000

C.I = 12,000(112 × 112/10000) – 12000

C.I. = 15052.8 – 12,000

C.I. = Rs.3052.8

∴ The compound interest on a sum of rs. 12,000 at 18% per annum for $1\frac{1}{3}$ if the interest is compounded 8 monthly is Rs. 3052.8

⭐ <u>Mistake Points</u>

Don't take the rate of interest = 18% as it is mentioned that interest is compounded 8-monthly, not annually.

75. **Answer: d**

Explanation:

Given

Diameter of the base of cone, d = 22 cm

Height of cone, h = 60 cm

Formula used

Curved surface area = $\pi r l$

Radius of cone = Diameter/2

where r is radius and l is slant height.

$l = \sqrt{h^2 + r^2}$

Calculation

Radius = 22/2

Radius = 11 cm

$l = \sqrt{h^2 + r^2}$

$l = \sqrt{(60)^2 + (11)^2}$

$l = \sqrt{3600 + 121}$

$l = \sqrt{3721}$

l = 61 cm

Curved surface area of cone = $\pi r l$

$\Rightarrow (22/7) \times 11 \times 61 = 2108.85$

Cost of polishing the curved surface area of cone = 2108.85 × 1.4

⇒ 2952.4

∴ **Cost of polishing the curved surface area of cone is Rs. 2952.4.**

---

76. Answer: d

Explanation:

The correct answer is <u>Arun Jaitley.</u>

- In January 2020, 4 "Padma Vibhushan" were conferred Posthumously.
  - George Fernandes (posthumous)
  - **Arun Jaitley (posthumous)**
  - Sushma Swaraj (posthumous)
  - Vishwesha Tirtha (posthumous)

⭐ <u>Additional Information</u>

- The Padma Vibhushan is the second-highest civilian award of the Republic of India, after the Bharat Ratna.
- The award is given for " exceptional and distinguished service ", without distinction of race, occupation, position, or sex.
- It is awarded by the Government of India every year on India's Republic Day.

---

77. Answer: d

Explanation:

The correct answer is <u>Puttari.</u>

⭐ <u>Key Points</u>

- **Puttari** is the harvest festival of the people of the Kodava tribes.

- It is celebrated in North Malabar rice bracket paddy crop harvest in the month of September to November.
- It is celebrated for the new crop of rice.

⭐ Additional Information

- **Madai Festival** is one of the most popular festivals of Chhattisgarh.
  - Madai Festival is celebrated by the Gond tribe.
- The **Bhagoria or Bhangoria** Festival is celebrated by the tribal people of the Indian states of Madhya Pradesh and Maharashtra(originally known as 'Malwa').
- **Theyyam** is a popular dance form of North Kerala (Malabar region).

---

78. **Answer: d**

Explanation:

The correct answer is Alice's Adventures in Wonderland.

⭐ Key Points

- **Alice's Adventure in Wonderland** is a book by **Lewis Carroll.**
- **Charles Lutwidge Dodgson** (27 January 1832 - 14 January 1898), better known by his pen name Lewis Carroll, was an English writer of children's fiction, notably Alice's Adventures in Wonderland and its sequel Through the Looking-Glass.
- He was noted for his facility with word play, logic, and fantasy.

⭐ Additional Information

- **"Rikki-Tikki-Tavi"** is a short story in the 1894 anthology The Jungle Book by Rudyard Kipling.
- **"The Man Who Would Be King"** (1888) is a story by Rudyard Kipling
- **The Jungle Book (1894)** is a collection of stories by the English author Rudyard Kipling.

---

79. Answer: a

Explanation:

The correct answer is <u>Manpreet Singh.</u>

- **Manpreet Singh** is the captain of the Indian Men's Hockey Team as of 30th July 2020.
- <u>Manpreet Singh Pawar</u> is an <u>Indian hockey player</u> and is also the captain of the India men's national field hockey team since May 2017.
- There are <u>eleven</u> players that play in a team of Hockey.
- It is played with sticks curved at the striking end to hit a small, hard ball into their opponent's goal.

⭐ <u>Additional Information</u>

- **Rani Rampal** is the captain of the Indian Hockey Team (Women).
- Hockey India is the apex body of the country which has the sole mandate to govern and conduct all activities for both men and women hockey in India.

---

80. Answer: b

Explanation:

The correct answer is <u>Janmashtami.</u>

- Janmashtami is celebrated by suspending a pot containing butter, curd, etc. high above the ground with people trying to break it by forming human pyramids.

⭐ **Additional Information**

- Krishna Janmashtami is celebrated on Bhadrapad Krishna Ashtami .
- It is the birth date of Lord Krishna .
- On this day, tableaux related to Shri Krishna's life are decorated in temples.
- After fasting for the whole day , after the birth of Shri Krishna at midnight, aarti and special pooja of Shri Krishna are performed and food is served.

---

81. Answer: d

Explanation:

The correct answer is <u>10°N and 30°N.</u>

⭐ **Key Points**

- The Ganga-Brahmaputra basin lies between**10°N and 30°N** latitudes.
- The Ganges and Brahmaputra and their tributaries together form the ' Ganges-Brahmaputra basin' in the Indian subcontinent.

- The vast delta of the Sundarbans and the vast Gangetic plain are found here. Where the dense population is found.
- This basin is very useful for farming , mainly paddy, maize, sorghum , and millet are cultivated.
- Sundarbans forest is famous for the 'Mangrove forest'.
- Gokhur Lake or Ox-bow lake is a common feature in the plains.

⭐ Additional Information

- Latitude is the angle that ranges from 0 degrees to 90 degrees.
- Latitude is imaginary lines that are horizontal.
- In India, the southernmost latitudes are 8 degrees and 4 minutes.
- 'Cape Camorin' in Kanyakumari is considered to be the southernmost point of India .
- The distance between latitudes is equal from the equator to the poles .
- Longitude is imaginary lines that are vertical.
- Longitude meets at the North and south poles .
- The distance between latitudes is not equal from the equator to the poles.
- It is minimum at poles and maximum at the equator .

82. Answer: a

Explanation:

The correct answer is A-horizon.

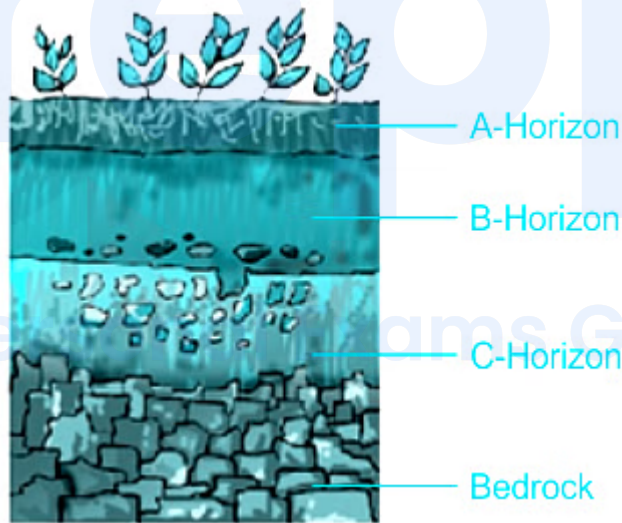⭐ Key Points

A. Horizon or Surface soil

- It is the part of the topsoil.
- In this layer, organic matter is mixed with mineral matter.
- It is the layer of mineral soil with the most organic matter accumulation and soil life.
- Nutrients like iron, aluminium, clay, and organic matter are sometimes dissolved and carried out in this layer.

- This layer is depleted of (eluviated of) iron, clay, aluminium, organic compounds, and other soluble constituents.
- When depletion is pronounced, a lighter-coloured "E" subsurface soil horizon is apparent at the base of the "A" horizon.

⭐ Additional Information

Soil Profile:

- It is the vertical section of soil from all its horizons.
- There are different types of soil, each with its own set of characteristics.
- It is made of layers, or horizons (O, A, E, B, C, R).
- Put the horizons together, and they form a soil profile.
- Most soil profiles cover the earth as 2 main layers Topsoil and Subsoil.
- Most soils have three major horizons (A, B, C) and some have an organic horizon (O).

83. **Answer: a**

Explanation:

The correct answer is **Porifera.**

⭐ Key Points

- Sponges belong to the phylum Porifera.
- These are primitive multicellular animals. The study of sponges is known as Parazoology.
- Sponges are mostly irregular in shape and have Radial symmetry.
- Sponges have a cellular level of organisation and with two germ layers i.e . Diploblastic.

⭐ Additional Information

- **Echinodermata** are exclusively marine organisms. Sea stars, sea cucumbers, sea urchins, sand dollars, and brittle stars are all examples of echinoderms.
- **Aschelminthes** are commonly known as roundworms. They are characterized by the presence of a pseudocoelom.
- **Mollusca** is the second-largest animal phylum. They are terrestrial or aquatic.

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84. **Answer: a**

Explanation:

The correct answer is <u>The first mill in Ahmedabad was established in the year 1895.</u>

⭐ Key Points

- The first cotton mill established in Ahmedabad was in the year 1861, which later emerged as a rival centre to Mumbai's textile mill.
- Ahmedabad is located on the banks of the river Sabarmati.
- Ahmedabad is called the Manchester of India because of its similarity with the famous cotton textile centre of Manchester, Great Britain .
- Ahmedabad is situated very close to cotton-growing areas.
- **Hence Option 1 is NOT true, so correct.**

---

85. **Answer: b**

Explanation:

The correct answer is <u>Choliya.</u>

⭐ <u>Key Points</u>

- Choliya dance is the sword dance , meant to depict the martial art traditions of the Kumaoni tribe.
- This dance form is as old as a thousand years, and it is performed during the local Rajput weddings.
- The Choliya dancers are equipped with swords and shields, regional brass instruments including Turi and Ransing, and percussion instruments like dhol and damaru, etc.
- The dancers dress like the Kumaon warriors and engage in mock sword fights with duly synchronised twists and turns of the body.

⭐ <u>Additional Information</u>

- Terukkuttu is a Tamil street theatre form practised in Tamil Nadu (India) and Tamil-speaking regions of Sri Lanka .
- **Rouf** is performed with the intriguing footwork carefully resonating with one another.
  - Rouf dance is the most important and famous folk dance form of Kashmir Valley.
- **Kutiyattam** , Sanskrit theatre, which is practised in Kerala, is one of India's oldest living theatrical traditions.

---

86. **Answer: a**

Explanation:

The correct answer is <u>2011-12.</u>

⭐ <u>Key Points</u>

- The base year for the calculation of GDP (Gross Domestic Product) is <u>2011-12</u>.
- This data is released by the Central Statistics Office (CSO), Ministry of Statistics and Programme Implementation.

- The government is planning to change the base year for calculation of GDP to 2017–2018 which is likely to come to effect by 2019-20.
- GDP is the total value of goods and services produced in the country on an annual basis.
- The base year for the calculation of the Consumer Price Index (CPI) is 2012.

---

87. Answer: c

Explanation:

The correct answer is **SBI Life Insurance.**

⭐ Key Points

- SBI Life is an Indian life insurance company that was started as a joint venture between the State Bank of India and French financial institution BNP Paribas Cardiff.
- Hence SBI Life insurance is NOT a public sector insurance company.

⭐ Additional Information

Public Sector Insurance Companies:

Name of Company	Year of Establishment	Headquarters
National Insurance Company	December 5, 1906	Kolkata
United India Insurance Company	18th February 1938	Chennai
New India Assurance Company	23rd July 1919	Mumbai
Life Insurance Corporation	1 September 1956	Mumbai
Agriculture Insurance Company Of India Limited	20th December 2002.	New Delhi

88. **Answer: c**

Explanation:

The correct answer is **20.**

- Part XX of the Indian Constitution deals with the procedure for its amendment.

⭐ **Additional Information**

Part	Subject	Articles
Part I	The Union and its territory	1 to 4
Part II	Citizenship	5 to 11
Part III	Fundamental Rights	12 to 35
Part IV	Directive Principles	36 to 51
Part IVA	Fundamental Duties	51A
Part V	The Union	52 to 151
Part VI	The States	152 to 237
Part VII	Repealed by Const. (7th Amendment) Act, 1956	
Part VIII	The Union Territories	239 to 242
Part IX	The Panchayats	243 to 243O
Part IXA	The Municipalities	243P to 243ZG
Part IXB	Co-operative Societies	243H to 243ZT
Part X	The Scheduled and Tribal Areas	244 to 244A
Part XI	Relations between the Union and the States	245 to 263
Part XII	Finance, Property, Contracts and Suits	264 to 300A
Part XIII	Trade, Commerce and Intercourse within the Territory of India	301 to 307
Part XIV	Services under the Union and the States	308 to 323
Part XIVA	Tribunals	323A to 323B
Part XV	Elections	324 to 329A

Part XVI	Special provisions relating to certain classes	330 to 342
Part XVII	Official Language	343 to 351
Part XVIII	Emergency Provisions	352 to 360
Part XIX	Miscellaneous	361 to 367
Part XX	Amendment of the Constitution	368
Part XXI	Temporary, Transitional, and Special Provisions	369 to 392
Part XXII	Short title, commencement, authoritative text in Hindi and repeals	393 to 395

89. Answer: a

Explanation:

The correct answer is **APJ Abdul Kalam.**

- **APJ Abdul Kalam** is the only President of India to have her/his wax statue at the Madame Tussauds wax museum in Delhi as of September 2020.
- Dr. APJ Abdul Kalam was the 11th President of India who has also written the books like Wings of Fire, Ignited Minds, India 2020.

⭐ **Additional Information**

- **Sarvepalli Radhakrishnan** was an Indian philosopher and statesman who was the first Vice President of India (1952–1962) and the second President of India from 1962 to 1967.
    - Since 1962, his birthday is celebrated in India as Teachers' Day on 5 September.
- **Pratibha Devi Singh Patil:**
    - She was the 12th President of India from 2007 to 2012
    - She was the first female President in India.
- **Rajendra Prasad** was the longest-serving President of India (1950 to 1962).

    ○ Rajendra Prasad was elected as the first President of India on 24th January 1950.

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90. **Answer: c**

Explanation:

The correct answer is <u>**Magadha**</u>.

⭐ <u>**Key Points**</u>

- **Magadha** became the most important mahajanapada in about two hundred years.
- Many rivers such as the Ganga and Son flowed through Magadha.
- Magadha empire was established on the bank of river Ganges and was bounded to the river Son on the west.

⭐ <u>**Additional Information**</u>

16 Mahajanapadas	Capital of the Mahajanapadas
Anga	Champa
Magadha	Girivraja/ Rajagriha
Kasi/Kashi	Kasi
Vatsa	Kausambi
Kosala	Shravasti (northern), Kushavati (southern)
Shurasena	Mathura
Panchala	Ahichchatra and Kampilya
Kuru	Indraprastha
Matsya	Viratanagara
Chedi	Sothivati
Avanti	Ujjaini or Mahismati
Gandhara	Taxila
Kamboja	Poonch
Asmaka or Assaka	Potali/Podana
Vajji	Vaishali
Malla	Kusinara

91. **Answer: d**

Explanation:

The correct answer is <u>**ensure availability and sustainable management of water and sanitation for all.**</u>

⭐ <u>Key Points</u>

- The United Nations Sustainable Development Goal 6 strives to **ensure availability and sustainable management of water and sanitation for all.**
- The 17 Sustainable Development Goals and 169 targets are integrated and indivisible and balance the three dimensions of sustainable development: the economic, social and environmental.

⭐ <u>Additional Information</u>

- There are 17 Sustainable Development Goals -
    - GOAL 1: No Poverty
    - GOAL 2: Zero Hunger
    - GOAL 3: Good Health and Well-being
    - GOAL 4: Quality Education
    - GOAL 5: Gender Equality
    - GOAL 6: Clean Water and Sanitation
    - GOAL 7: Affordable and Clean Energy
    - GOAL 8: Decent Work and Economic Growth
    - GOAL 9: Industry, Innovation and Infrastructure
    - GOAL 10: Reduced Inequality
    - GOAL 11: Sustainable Cities and Communities
    - GOAL 12: Responsible Consumption and Production
    - GOAL 13: Climate Action
    - GOAL 14: Life Below Water
    - GOAL 15: Life on Land
    - GOAL 16: Peace and Justice Strong Institutions
    - GOAL 17: Partnerships to Achieve the Goal

---

92. **Answer: a**

Explanation:

The correct answer is It prevents the State from making any law in matters of religion.

⭐ Key Points

- Constitution makers choose the model of a secular state.
- It provides all individuals and communities with the freedom to profess, practice and propagate any religion.
- It prohibits discrimination on grounds of religion.
- **Hence It prevents the State from making any law in matters of religion that is NOT true.**

⭐ Additional Information

- Originally (1949), the Constitution contained:
    - A Preamble.
    - 395 Articles. (divided into 22 Parts)
    - 8 Schedules.
- Presently, it consists of a:
    - A Preamble.
    - About 465 Articles (divided into 25 Parts).
    - 12 Schedules.

---

93. **Answer: c**

Explanation:

The correct answer is birch.

⭐ Key Points

- Manuscripts were usually written on palm leaf, or on the specially prepared bark of a tree known as the **birch,** which grows in the Himalayas, while inscriptions were engraved either on a stone surface or on bricks or metals.
- **Birch trees** are usually found in montane forests which are found in high altitude areas.

- **Birch trees** are trees that can grow on the highest altitudes among trees at typically more than 3500 meters above sea level.
- In India, they can only be seen in the Himalayan region.

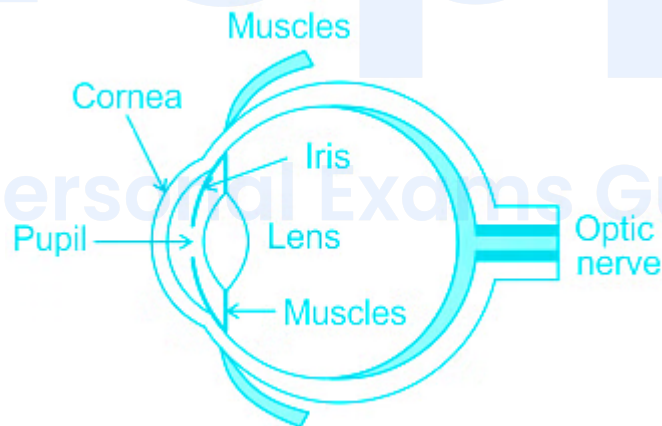## 94. Answer: d

Explanation:

The correct answer is <u>iris</u>.

⭐ <u>Key Points</u>

- The **iris** regulates the amount of light entering the eyes.
- Iris is the **coloured part of the eye that gives pigment to the eye.**
- It is attached to ciliary muscles which will contract and expand to accommodate light in required amounts.

⭐ <u>Additional Information</u>

- The **cornea** is the outermost layer of the eye and focuses the entry of light into the eye.
- A **pupil** is a dark circle located at the centre of the iris. It will adjust itself to the amount of light entering the eye.
- The **eye lens** adjusts its shape and thickness as required to help focus on the retina.

- The **retina** is the light-sensitive membrane behind the eye where the image is formed.
- The **visual signals** regarding the image formed are transmitted to the brain in the form of electrical signals through the optic nerves.

---

95. Answer: c

Explanation:

The correct answer is In a forest, shrubs form the lowest layer of vegetation.

⭐ Key Points

- A forest is an area of land dominated by trees .
- Hundreds of definitions of forest are used throughout the world, incorporating factors such as tree density, tree height, land use, legal standing and ecological function .
- In a forest, trees form the uppermost layer of vegetation.
- Forests protect the soil from erosion.
- Forests influence climate, water cycle and air quality.

---

96. Answer: c

Explanation:

The correct answer is **Hunasagi.**

- Hunasagi is a Palaeolithic site of archaeological importance in India.
- Hunasagi is in the Yadgiri district in Karnataka.

⭐ Additional Information

- **Important Palaeolithic sites in India are as follows:**
  - Lidder river Pahalgam, Kashmir
  - Sohan valley Punjab,

- ○ Banks of River Beas, Banganga, Sirsa Haryana,
- ○ Chittorgarh and Kota, Rajasthan,
- ○ River Wagoon, Kadamali basins Rajasthan.
- ○ River Sabarmati and Mahi basins (Rajasthan & Gujarat),
- ○ Basins of river tapti, Godavari, Bhima and Krishna
- ○ Koregaon, Chandoli and shikarpur (Maharashtra),
- ○ River Raro (Jharkhand),
- ○ River Suvarnrekha (Orissa),
- ○ Ghatprabha River Basin (Karnataka).
- ○ Belan Valley, Allahabad
- ○ Sinsgi Talav, Didwana, Nagaur Rajasthan
- ○ **Hunasagi, Gulbarga in Karnataka.**
- ○ Attirampakkam in Tamilnadu

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97. **Answer: d**

Explanation:

The correct answer is <u>voltmeter</u>.

⭐ <u>Key Points</u>

- A Voltmeter is an instrument used to measure the potential difference in a circuit.
- A voltmeter i s always connected in parallel in the circuit to measure the potential difference between two points.
- Unit of Potential Difference - Volt .
- A galvanometer can be converted into a voltmeter by connecting a large resistance in series .
- Voltmeter was invented by Hans Orested .

⭐ <u>Additional Information</u>

Name of the Instrument	Functions/ Used for
Barometer	Measuring atmospheric pressure.
Galvanometer	Measuring small electric current.
Ammeter	Measuring the strength of the electric current.
Pyrometer	Measuring very high temperature.
Calorimeter	Measuring quantities of heat.
Polygraph	Recording changes, simultaneously in physiological processes such as heartbeat, blood pressure, and respiration is also used as a lie detector.
Electrocardiograph (ECG)	Measuring movements of the heart.
Dynamo	Converts mechanical energy into electrical energy.
Periscope	Used for viewing objects above sea level.
Electroencephalograph (EEG)	Measures electrical activities in the brain.

98. Answer: c

Explanation:

The correct answer is <u>1963.</u>

⭐ <u>Key Points</u>

- The Mutual Fund industry in India started in 1963 with the formation of **UTI in 1963 by an Act of Parliament** and functioned under the Regulatory and administrative control of the **Reserve Bank of India (RBI).**
- Unit Trust of India (UTI) was established in 1963 by an Act of Parliament.
- UTI is the first mutual fund company established in India.

⭐ <u>Additional Information</u>

- **SEBI** is the regulator of the **securities, mutual funds and commodity market** in India owned by the Government of India.
- It was established on **12 April 1992.**
- It is headquartered in **Mumbai.**

---

99. Answer: a

Explanation:

The correct answer is <u>Padma Shree.</u>

- In 2020, a total of 118, Padma Shree were awarded, some important awardees are **Zaheer Khan, Jitu Rai, Rani Rampal, Suresh Wadkar, Oinam Bembem Devi.**
- In 2020 a total of 16 awardees, some important are, Krishnammal Jagannathan, Anand Mahindra, Manohar Parrikar, P. V. Sindhu.

⭐ <u>Additional Information</u>

- Padma Awards:
  - Padma Vibhushan- Awarded for exceptional and distinguished service.
  - Padma Bhushan - Awarded for distinguished service of a high order.
  - Padma Shri- Awarded for distinguished service in any field.

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100. Answer: a

Explanation:

The correct answer is<u>A person who holds, or who has held, office as President shall, subject to the other provisions of this Constitution, be eligible for re-election to that office.</u>

⭐ <u>Key Points</u>

- Article 57 deals with the **eligibility conditions for the re-election of the President.**
- It states that a person who holds, or who has held, office as President shall, subject to the other provisions of this Constitution, be eligible for re-election to that office.

⭐ <u>Additional Information</u>

- Important articles related to President:

Articles	Provisions
Article 52	The President of India
Article 53	The executive power of the Union
Article 54	Election of President
Article 55	Manner of election of President
Article 56	Term of office of President
Article 57	Eligibility for re-election
Article 58	Qualifications for election as President
Article 59	Conditions of the President's office
Article 60	Oath or affirmation by the President
Article 61	Procedure for impeachment of the President
Article 62	Time of holding election to fill the vacancy in the office of President
Article 65	Vice-President to act as President or to discharge his functions