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: 12 Oct 2021 Shift 3)

Total Time: 1 Hour : 30 Minute   **Total Marks:** 100

Instructions

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

   The _ _ _ _ _ _ to have multiple plasma banks is a praise-worthy one.

   a. initiative

   b. initiation

   c. initiate

   d. inaction

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

   The Singapore government has deported ten Indian students for _ _ _ _ _ _ the government rules.

   a. vandalising

   b. verifying

   c. violating

   d. aiding

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

   There was enough evidence to <u>convict him of</u> selling adulterated food.

   a. convict him in

b. convict him into

c. No substitution required

d. convict him by

---

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

SYMPTOMATIC

a. Optimistic

b. Characteristic

c. Strange

d. Atypical

---

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

A large open area of land, water or sky

a. Enclosure

b. Front

c. Expanse

d. Margin

---

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

OBESE

a. Skinny

b. Rude

c. Paunchy

d. Cute

---

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

The police warned citizens to be alert when outdoors as gangs <u>has been attacking</u> people on the road.

a. No substitution required

b. was being attacked

c. have been attacking

d. was attacking

---

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

a. Iodine

b. Voilent

c. Enjoin

d. Loiter

---

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

Get on like a house on fire

a. To be angry and unfriendly

b. To become friends quickly

c. To end a relationship

d. To take an instant dislike

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

STUNNING

a. Impulsive

b. Obedient

c. Unattractive

d. Gorgeous

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

Tejaswin, the Indian sportsman, is leading the anti-race cause in the US.

a. in the US

b. the anti-race cause

c. is leading

d. Tejaswin, the Indian sportsman

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

Using high-sounding words but with little meaning

a. Bombastic

b. Eloquent

c. Clever

d. Reserved

---

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

Can you <u>assembly </u>the television using the manual?

a. assembling

b. No substitution required

c. assembles

d. assemble

---

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

RABID

a. Methodical

b. Extreme

c. Calm

d. Indifferent

---

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

a. Grieve

b. Concieve

c. Deceive

d. Receive

---

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

Several foreign students have been asked by the US to leave the university campus and_____ home.

a. returned

b. returning

c. return

d. returns

---

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

The CBSE has decided on a_____ to assign marks for the examinations not taken by Class 12 students.

a. formulae

b. equation

c. formula

d. formation

---

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

Have your heart set on something

   a. To want something very much

   b. To be always in a nervous state

   c. To be in control of one's feelings

   d. To not want something at all

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

Google has set on an India fund and announced an investment of ten billion dollars.

   a. an India fund

   b. and announced an investment

   c. Google has set on

   d. of ten billion dollars

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

Sitab, my gardener, have been cut the hedge the whole morning.

   a. the whole morning

   b. Sitab, my gardener

   c. have been cut

d. the hedge

---

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)

The first thousand days can determine the trajectory (1)_____a child's life. After food for the body (2)_____taken care of we should provide food for (3)_____mind. Early stimulation of children's mind can (4)_____them to become good learners. Parents should be (5)_____in doing this.

Select the most appropriate option to fill in blank no. 1.

a. from

b. at

c. of

d. about

---

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)

The first thousand days can determine the trajectory (1)_____a child's life. After food for the body (2)_____taken care of we should provide food for (3)_____mind. Early stimulation of children's mind can (4)_____them to become good learners. Parents should be (5)_____in doing this.

Select the most appropriate option to fill in blank no. 2.

a. are

b. am

c. is

d. has

---

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.

    The first thousand days can determine the trajectory (1)_____a child's
    life. After food for the body (2)_____taken care of we should provide
    food for (3)_____mind. Early stimulation of children's mind can
    (4)_____them to become good learners. Parents should be
    (5)_____in doing this.

    Select the most appropriate option to fill in blank no. 3.

    a. some

    b. that

    c. a

    d. the

---

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.

    The first thousand days can determine the trajectory (1)_____a child's
    life. After food for the body (2)_____taken care of we should provide
    food for (3)_____mind. Early stimulation of children's mind can
    (4)_____them to become good learners. Parents should be
    (5)_____in doing this.

Select the most appropriate option to fill in blank no. 4.

a. lead

b. leads

c. leading

d. led

---

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.

    The first thousand days can determine the trajectory (1)_____a child's
    life. After food for the body (2)_____taken care of we should provide
    food for (3)_____mind. Early stimulation of children's mind can
    (4)_____them to become good learners. Parents should be
    (5)_____in doing this.

    Select the most appropriate option to fill in blank no. 5.

    a. adjusted

    b. allocated

    c. restricted

    d. oriented

General Intelligence & Reasoning

26. Two statements are followed by two conclusions numbered I and II. Assuming the statements to be true even if they do not conform to real-world knowledge, decide which of the conclusions logically follows/follow from the statements.   (+1, -0.25)

Statements:

1. Some phones are instruments.

2. All instruments are devices

Conclusions:

I. All devices are instruments.

II. Some devices are phones.

a. Only conclusion I follows

b. Only conclusion II follows.

c. Both conclusions I and II follow

d. Neither conclusion I nor conclusion II follows.

---

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

a.

b.

c.

d.

---
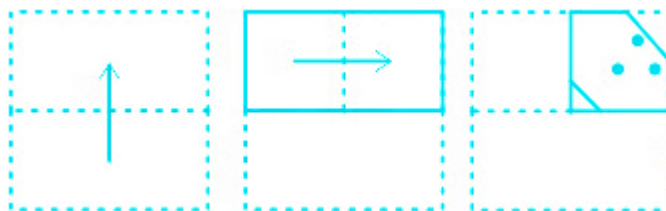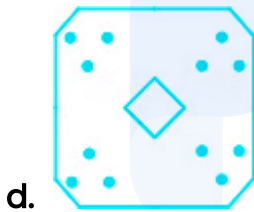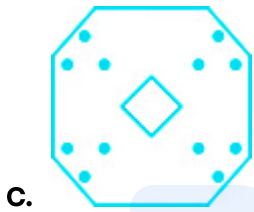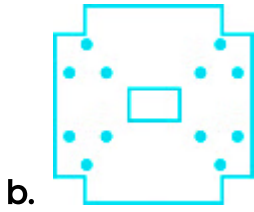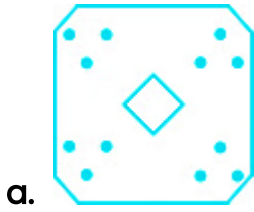
28. If MATERIAL is coded as SZLREKZH, then how would EQUATION be coded?   (+1, -0.25)

a. TPATDMNH

b. PDTAMTNH

c. TPDTAMNH

d. SRFTAOPJ

---

29. Eight houses A, B, C, D, E, F, G and H are in two rows with four houses in each row. The houses in one row face the houses in the other.   (+1, -0.25)

i. C is facing F.

ii. G and A are diagonally opposite.

iii. E is facing H, but is not in the same row as that of A.

iv. H is between D and C.

Which house is B facing?

a. D

b. G

c. F

d. A
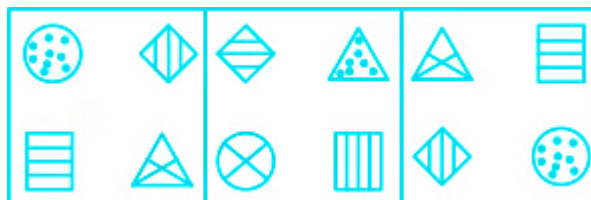
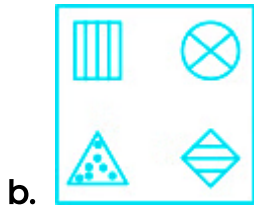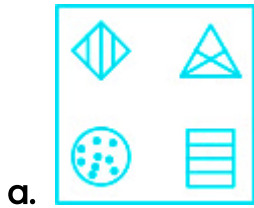30. If VEAL is coded as 4483 and LOWER is coded as 33549, then how would TECHNO be coded? (+1, -0.25)

a. 253911

b. 205393

c. 756946

d. 243853

31. Which option figure would come next in the following figure series? (+1, -0.25)

a.

b.

c.

d.

32. Choose the set of numbers that is similar to the following set.   (+1, -0.25)

{25, 19, 36}

a. {9, 49, 16}

b. {20, 28, 32}

c. {30, 25, 35}

d. {36, 23, 48}

33. Seven persons visited a doctor for consultation, one after another.   (+1, -0.25)

i. Mahesh visited immediately after Amit but sometime before Virat.

ii. Ashok visited just after Virat and just before Naman.

iii. Neither Anup nor Naman was the last to visit.

iv. There were as many visitors between Ashok and Suraj as there were between Anup and Ashok.

Who were the first and the last persons to have visited the doctor, respectively

a. Mahesh and Suraj

b. Naman and Ashok

c. Amit and Ashok

d. Amit and Suraj

---

34. Which letter-cluster will replace the question mark (?) In the following series?   (+1, -0.25)

QUESTION, USINETO, SNTIEO, NIOTE, ?

a. ITEO

b. TEOI

c. ITOE

d. OEIT

---

35. Three statements are followed by three conclusions numbered I, II and III.   (+1, -0.25)
Assuming the statements to be true even if they do not conform to real-

world knowledge, decide which of the conclusions logically follows/follow from the statements.

Statements:

1. All watches are clocks.

2. Some clocks are machines.

3. Some machines are gadgets.

Conclusions:

I. Some watches are machines.

II. Some machines are clocks.

III. Some gadgets being clocks is a possibility.

a. Only conclusion II follows .

b. All conclusions I, II and III follow.

c. Only conclusion III follows.

d. Only conclusions II and III follow.

---

36. Six friends A, B, C, D, E and F are standing in a line facing North.   (+1, -0.25)

    i. There is one person between A and F.

    ii. B and E have two persons between them.

    iii. C is on the extreme left.

    iv. F is between B and D.

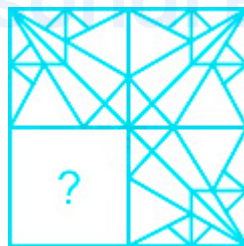   If E is NOT at an extreme end, who is on the extreme right?

    a. D

b. A

c. B

d. F

---

37. Select the option in which the number-pair shares the same relationship as that shared by the following number-pair.   **(+1, −0.25)**

61 : 97

a. 79 : 119

b. 18 : 141

c. 46 : 78

d. 52 : 84

---

38. Select the option figure, which when placed in the blank space of the figure marked 'X' would complete the pattern.   **(+1, −0.25)**

a.

b.

c.

d.

---

39. Which number will replace the question mark (?) in the following number series?   (+1, −0.25)

13, 16, 23, 36, 57, 88, ?, 188

a. 145
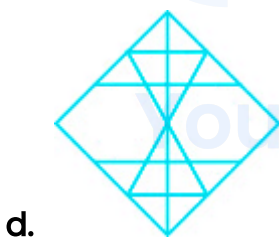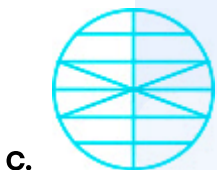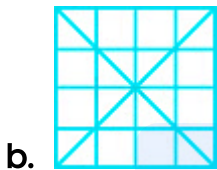
b. 119

c. 131

d. 127

---

40. 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)

FJNRVZ : KLEWXQ :: WTQNKH : ?

a. VTNMME

b. NVVEMM

c. USMENM

d. XRTMNE

41. Select the option in which the given figure is embedded (rotation is NOT allowed).   (+1, −0.25)

a.

b.

c.

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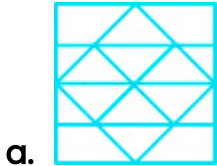
42. Select the option that is related to the third word in the same way as the second word is related to the first word.   (+1, −0.25)

Germany : Euro :: Myanmar : ?

a. Dollar

b. Kyat

   c. Dinar

   d. Pound

---

43. Which number will replace the question mark (?) in the following number   **(+1, −0.25)**
series?

17, 20, 30, 45, 71, 106, ?

   a. 143

   b. 171

   c. 167

   d. 156

---

44. If DEAF is coded as 123 and CAN is coded as 45, then how would BEAK be   **(+1, −0.25)**
coded?

   a. 113

   b. 126

   c. 93

   d. 109

---

45. If the signs + and ÷ are interchanged, then which of the following   **(+1, −0.25)**
equations would be correct?

   a. 8 + 12 × 3 ÷ 1 = 4

   b. 15 − 12 + 6 ÷ 2 = 13

c. 9 + 6 × 4 ÷ 2 = 8

d. 4 ÷ 8 + 12 × 6 = 10

---

46. Select the mirror image of the figure marked 'X', when the mirror is placed on the right side of the figure.   **(+1, –0.25)**

(X)

a.

b.

c.

d.

---

47. If HARBOUR is coded as BORUARH, then how would RAPTURE be coded?   **(+1, –0.25)**

a. TPURARE

b. PTAURRE

c. TUPARER

d. TUPRAER

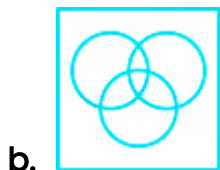
48. Select the option that is related to the third term in the same way as the second term is related to the first term.   (+1, −0.25)

Sour : Sweet :: Wild : ?

a. Forest

b. Lame

c. Tame

d. Salty

---

49. Select the Venn diagram that best illustrates the relationship between the following classes.   (+1, −0.25)

Troposphere, Atmosphere, Mesosphere

a.

b.

c.

d.

---
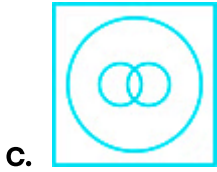
50. Which two signs should be interchanged to make the given equation correct?

(+1, −0.25)

15 + 15 ÷ 15 − 15 × 15 = 15

a. + and ×

b. + and ÷

c. + and −

d. ÷ and x

Numerical Aptitude

51. A man ordered 10 physics books and some chemistry books, The price of a chemistry book is twice the price of a Physics book. While preparing the bill, the clerk interchanged the number of physics and chemistry books by mistake, which decreased the bill by 12 $\frac{1}{2}$ %. The ratio of the number of physics books to the number of chemistry books in the original order is: **(+1, −0.25)**

   a. 3 : 5

   b. 4 : 5

   c. 3 : 4

   d. 2 : 3

---

52. The average of seven consecutive even natural numbers is 36. The value of the first number is: **(+1, −0.25)**

   a. 26

   b. 30

   c. 32

   d. 28

---

53. An aeroplane covers a certain distance at a speed of 320 km/h in $5\frac{1}{2}$ hours, To cover the same distance in 4 hours, it must travel at a speed of. **(+1, −0.25)**

   a. 460 km/h

   b. 440 km/h

c. 420 km/h

d. 450 km/h

---

54. Study the following bar graph and answer the question given below.   **(+1, −0.25)**

The given bar graph represents the total number of applications received for the B.Com course by two different colleges

A and B in five different years.
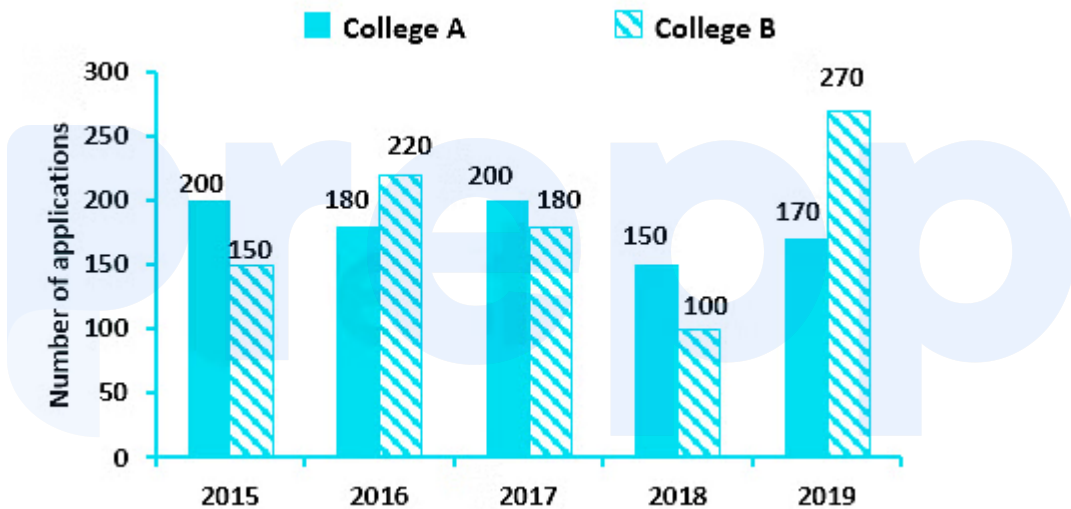
The number of applications received by college A in 2016 is what percentage of the total number of applications received by college A from 2015 to 2019?

a. 20%

b. 15 %

c. 25 %

d. 24%

---

55. The area of the four walls of a room is 1152 m^2 and its length is $\frac{5}{3}$ times its breadth. If the height of the room is 12 m, then the area of its floor is: **(+1, –0.25)**

   a. 580 m^2

   b. 520 m^2

   c. 540 m^2

   d. 560 m^2

---

56. A person has left a sum of Rs. 1,45,600 to be divided among his two sons aged 15 years and 13 years now. Both of them invested their shares on simple interest at 10% per annum. If both of them gets equal amounts when they attains 18 years of age. then the original share received by younger son is: **(+1, –0.25)**

   a. Rs. 64,500

   b. Rs. 67,600

   c. Rs. 66,400

   d. Rs. 67,500

---

57. If Rs. 12,500 is invested at 12% p.a. on compound interest for one year and 4 months, compounded annually, then the amount received is: **(+1, –0.25)**

   a. Rs. 14,650

   b. Rs. 14,560

   c. Rs. 15,460

d. Rs. 16,450

---

58. three numbers are in the ratio $\frac{1}{4} : \frac{1}{5} : \frac{1}{3}$ The difference between the greatest and the smallest number is 800. The sum of the three numbers is:

a. 4500

b. 5800

c. 5700

d. 4700

---

59. The ratio of the monthly income and expenditure of Dinesh is 17 : 14, and his monthly savings are Rs. 12,000. If his monthly income is increased by Rs. 10,000 and expenditure is decreased by Rs. 2,000, then the new ratio of his income and expenditure is:

a. 13 : 8

b. 13 : 9

c. 11 : 9

d. 11 : 7

---

60. 'A' alone can complete a piece of work for Rs. 4,800 in 16 days, but by engaging an assistant, the work is completed in 12 days, Find the share to be received by the assistant.

a. Rs. 1,500

b. Rs. 1,300

c. Rs. 1,400

d. Rs. 1,200

---

61. A man sold a radio and a TV set together for Rs. 30,400. thereby making a profit of 25% on the radio and 10% on the TV set. By selling them together for Rs. 30,700, he would have made a 10% profit on the radio and 25% on the TV set. The cost price of the radio is:

(+1, -0.25)

a. Rs. 10,000

b. Rs. 12,000

c. Rs. 8,000

d. Rs. 9,000

---

62. 55% of the candidates in an examination were boys. 60% of the boys and 75% of the girls passed, and 315 girls failed. The number of boys who failed were:

(+1, -0.25)

a. 626

b. 632

c. 616

d. 646

---

63. The numbers 25, 34, 46, 48, 2x+1, 4x+3, 105, 110, 114, 122 are written in ascending order and their median is 77. The value of x is:

(+1, -0.25)

a. 22

b. 24

c. 28

d. 25

---

64. Two workers A and B are engaged to do a piece of work. A working alone would take 14 hours more to complete the work than when A and B work together. B working alone would take $3\frac{1}{2}$ hours more than when A and B work together, The time required to finish the work together is:

(+1, −0.25)

a. 7 hours

b. 5 hours

c. 6 hours

d. 8 hours

---

65. If the difference between the selling prices of an article when sold at 18% discount and at 10.5% discount is Rs. 192, then the marked price of the article is:

(+1, −0.25)

a. Rs. 2,580

b. Rs. 2,480

c. Rs. 2,560

d. Rs. 2,500

---

66. The average of 40% of a number and 33% of the same number is 73. The average of $\frac{1}{5}$ th and $\frac{1}{4}$ th of that number is:

(+1, −0.25)

a. 40

b. 45

c. 42

d. 50

---

67. The radius of the base of a cone and also that of a hemisphere each is 14   (+1, −0.25)
cm. Also, the volumes of these two solids are equal. The curved surface
area of the cone is:

$\left(\text{Take } \pi = \frac{22}{7}\right)$

a. $614\sqrt{5} \text{ cm}^2$

b. $626\sqrt{5} \text{ cm}^2$

c. $616\sqrt{5} \text{ cm}^2$

d. $516\sqrt{5} \text{ cm}^2$

---

68. The slant height and the diameter of the base of a right circular cone are   (+1, −0.25)
34 cm and 32 cm, respectively. Its volume (in cm^3) is:

a. 3840 π

b. 2560 π

c. 3200 π

d. 2880 π

---

69. Study the following bar graph and answer the question given below.   (+1, −0.25)

The given bar graph represents the total number of applications received for the B-Com course by two different colleges A and B in five different years.
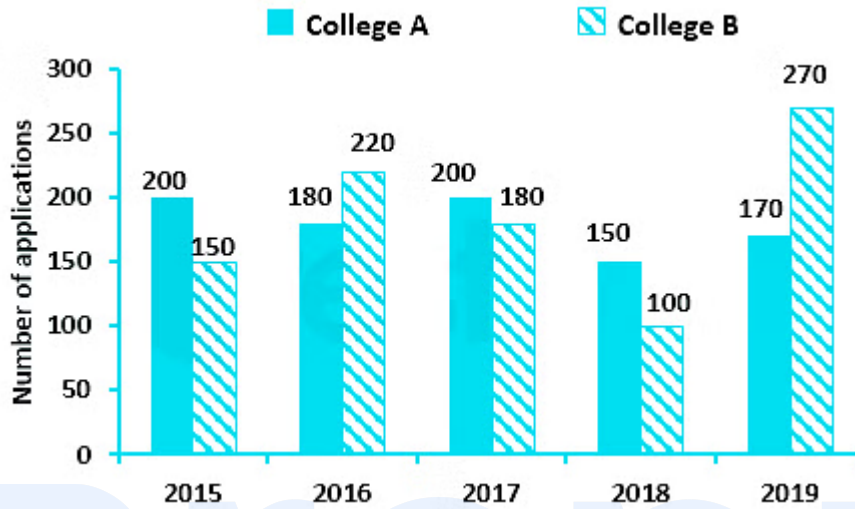
The difference between the average number of applications received by college A from 2015 to 2019 and the average number of applications received by college B from 2015 to 2019 is:

a. 8

b. 6

c. 5

d. 4

---

70. If the volume of a cube is 375√3 cm ^{3}, then its diagonal is: (+1, −0.25)

a. 10 cm

b. 15 cm

c. 14 cm

d. 12 cm

---

71. The sum of two numbers is 60 and their product is 875. The HCF of the numbers is: **(+1, -0.25)**

   a. 6

   b. 8

   c. 5

   d. 7

---

72. Vaishnav left from place A at 11 a.m, for place B, and Suman left from place B at 2 p.m. for place A. The distance between them is 516 km. If Vaishnav's speed is 44 km/h and Suman's speed is 52 km/h, then at what time will they meet each other? **(+1, -0.25)**
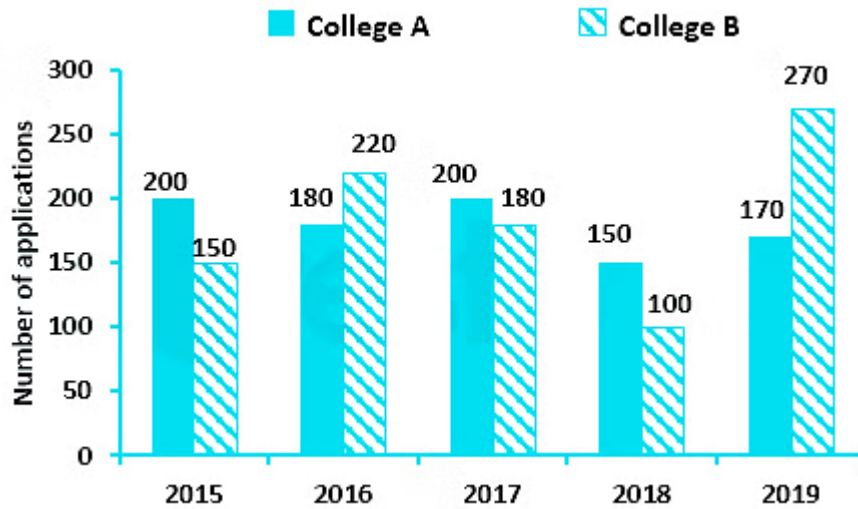
   a. 7 p.m.

   b. 6 p.m.

   c. 5 p.m.

   d. 8 p.m.

---

73. Study the following bar graph and answer the question given below. **(+1, -0.25)**

   The given bar graph represents the total number of applications received for the B.Com course by two different colleges A and B, in five different years.

The ratio of the total number of applications received by college A in 2016 and 2017 together to the total number of applications received by college B in 2016 and 2017 together is;

a. 18 : 19

b. 15 : 17

c. 19 : 20

d. 15 : 19

74. Prasad bought 12 TV sets at Rs. 18,000 each and sold all of them at a total price of Rs. 2,59,200. Find his profit or loss percentage.   (+1, -0.25)

a. Profit 15%

b. Loss 15%

c. Loss 20%

d. Profit 20%

75. The value of 21 × [(9 − 4) ÷ {(8 ÷ 8 of 4) + (4 ÷ 4 of 2)}] is: **(+1, −0.25)**

a. 140

b. 80

c. 100

d. 20

General Awareness

76. As of July 2020, who among the following was the Union Minister of Road Transport and Highways?   **(+1, −0.25)**

   a. Kiren Rijiju

   b. Thawar Chand Gehlot

   c. Nitin Gadkari

   d. Piyush Goyal

77. The gymnast Dipa Karmakar belongs to the state of_____.   **(+1, −0.25)**

   a. Maharashtra

   b. Haryana

   c. Manipur

   d. Tripura

78. Kolleru lake is located in the state of_____.   **(+1, −0.25)**

   a. Andhra Pradesh

   b. Tamil Nadu

   c. Uttarakhand

   d. Kerala

79. Who among the following was NOT a co-recipient of the Nobel Prize in Physics in 2019? **(+1, −0.25)**

 a. Didier Queloz

 b. Akira Yoshino

 c. Michel Mayor

 d. James Peebles

80. As on September 2020, in order to be a member of the Rajya Sabha one must not be less than_____ years of age. **(+1, −0.25)**

 a. 25

 b. 30

 c. 18

 d. 21

81. _____ is the field of study concentrated on pregnancy, childbirth and the postpartum period. **(+1, −0.25)**

 a. Ophthalmology

 b. Oncology

 c. Obstetrics

 d. Orthopedics

82. Who among the following is NOT a former President of India?   (+1, -0.25)

   a. KR Narayanan

   b. Shankar Dayal Sharma

   c. Vishwanath Pratap Singh

   d. Giani Zail Singh

---

83. In which year did Amartya Sen receive the Nobel Prize for Economics?   (+1, -0.25)

   a. 1998

   b. 2004

   c. 1997

   d. 1999

---

84. Which of the following waterfalls is in the state of Goa?   (+1, -0.25)

   a. Shivasamudram

   b. Gokak

   c. Duduma

   d. Dudhsagar

---

85. Badami was the earliest capital of the: (+1, -0.25)

   a. Chalukyas

b. Sungas

c. Pallavas

d. Mauryas

---

86. Which of the following is the chemical symbol of Curium?　　　　　(+1, -0.25)

   a. Cm

   b. Ci

   c. Cr

   d. Cu

---

87. With reference to the Sustainable Development Goals of the United　　(+1, -0.25)
   Nations, which of the following is Goal Number One?

   a. No poverty

   b. Industry, innovation and infrastructure

   c. Reduced inequalities

   d. Zero hunger

---

88. In 1877, which of the following viceroys organised a durbar to　　　(+1, -0.25)
   acknowledge Queen Victoria as the Empress of India?

   a. Lord Lytton

   b. Lord Ripon

c. Lord Minto

d. Lord Dufferin

---

89. In 1972, the West Bengal Forest Department recognised its failures in reviving the degraded_____ forests in South Western districts of the State. (+1, -0.25)

a. Segun

b. Sal

c. Piyal

d. Palash

---

90. Who among the following is the author of the book 'Kanthapura'? (+1, -0.25)

a. Nirad Choudhuri

b. Sitakanta Mohapatra

c. Raja Rao

d. Kamala Das

---

91. Which of the following forts was built by the Kakatiya dynasty? (+1, -0.25)

a. Raigad

b. Neemrana

c. Panhala

d. Golconda

---

92. How many oxygen atoms are there in a molecule of ozone? (+1, -0.25)

a. One

b. Two

c. Three

d. Four

---

93. Which of the following is NOT a town of Karnataka? (+1, -0.25)

a. Chikmagalur

b. Bijapur

c. Chitradurga

d. Bhusawal

---

94. The name of Guru Kelu Charan Mohapatra is primarily associated with which of the following dances? (+1, -0.25)

a. Mohiniattam

b. Sattariya

c. Kathak

d. Odissi

---

95. An asset that has remained in the substandard category for a period of   **(+1, -0.25)**
12 months is classified as a_____ asset by a bank.

    a. liquid

    b. non-performing

    c. doubtful

    d. loss

---

96. Which of the following Harappan sites is located in Afghanistan?   **(+1, -0.25)**

    a. Shortughai

    b. Balakot

    c. Nageswar

    d. Kalibangan

---

97. India hosted the Commonwealth Games in: **(+1, -0.25)**

    a. 2012

    b. 2008

    c. 2006

    d. 2010

---

98. Which of the following is a form of devotional poetry sung in praise of   **(+1, -0.25)**
God Vithoba?

a. Shabad

b. Abhang

c. Tevaram

d. Bhatiali

---

99. Who among the following was the first recipient of Padma Vibhushan?   **(+1, −0.25)**

a. Satyendra Nath Bose

b. John Matthai

c. JRD Tata

d. Hargobind Khorana

---

100. As per the Consumer Protection Act, 1986 a complaint can be filed in the   **(+1, −0.25)**
District Consumer Disputes Redressal Forum if the value of the claim is
up to:

a. Rs. 5 lakh

b. Rs. 15 lakh

c. Rs. 20 lakh

d. Rs. 10 lakh

Answers

1. Answer: a

Explanation:

The correct answer is ' **initiative** '.

⭐ **Key Points**

- The most appropriate word for the given blank is ' **initiative** '.
- It means '**official action that is taken to solve a problem or improve a situation**'. (समस्या के समाधान या स्थिति में सुधार के लिए की गई आधिकारिक कार्रवाई; पहल)
  - *Example: a new government initiative to help people start small businesses...*
- In the given context the most appropriate word is ' **initiative** ' because it means an important act or statement that is intended to solve a problem.

Correct Sentence:*The **initiative** to have multiple plasma banks is a praise-worthy one.*

⭐ **Additional Information**

- Let's look at the **meaning** of other words:
  - **inaction** : doing nothing; lack of action. (कुछ न करना; निष्क्रियता)
  - **initiation** : the action of beginning something. (कुछ शुरू करने की क्रिया)
  - **initiate** : to start something. (आरंभ करना, श्रीगणेश या सूत्रपात करना)

---

2. Answer: c

Explanation:

The correct answer is ' **violating** '.

⭐ **Key Points**

- The most appropriate word for the given blank is ' **violating** '.

- It means **'to break a rule, an agreement, etc.'** [(नियम, समझौते आदि का) उल्लंघन करना]
  - *Example: They were charged with **violating** federal law.*

Correct Sentence: *The Singapore government has deported ten Indian students for **violating** the government rules.*

⭐ Additional Information

- Let's look at the meaning of other words:
  - **vandalising** : deliberately destroy or damage (public or private property). [उपद्रव मचाना; सार्वजनिक या निजी संपत्ति को जानबूझकर नष्ट करना या नुकसान पहुंचाना]
  - **aiding** : to help somebody/something. (सहायता करना, मदद पहुँचाना)
  - **verifying** : to check or state that something is true. (किसी बात की सत्यता को जाँच कर प्रमाणित करना)

---

3. **Answer: c**

Explanation:

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

⭐ Key Points

- The given sentence is **grammatically correct.**
- In the given sentence the word ' **convict** ' means **'to say officially in a court of law that somebody is guilty of a crime'.** (न्यायालय द्वारा अपराधी या दोषी ठहराया जाना)
  - *Example: He was **convicted of** armed robbery and sent to prison.*
- We know that the word ' **convict** ' is followed by the preposition ' **of** '.
- Here, it is already being followed by ' **of** '.
- Hence, no substitution is required.

Correct Sentence:*There was enough evidence to **convict him of** selling adulterated food.*

⭐ Hinglish

- दिया गया वाक्य व्याकरण की दृष्टि से सही है।

- दिए गए वाक्य में ' convict ' शब्द का अर्थ है 'कानून की अदालत में आधिकारिक तौर पर यह कहना कि कोई व्यक्ति अपराध का दोषी है' ।
    - *Example: He was convicted of armed robbery and sent to prison.*
- हम जानते हैं कि ' convict ' शब्द के बाद ' of ' शब्द आता है।
- इसलिए, कोई प्रतिस्थापन की आवश्यकता नहीं है।

4. Answer: b

Explanation:

The correct answer is 'Characteristic'.

⭐ Key Points

- The most appropriate synonym of the given word ' Symptomatic ' is ' Characteristic '.
- Symptomatic : serving as a symptom or sign, especially of something undesirable. (एक लक्षण या संकेत के रूप में कार्य करना, विशेष रूप से कुछ अवांछनीय)
    - *Example: These difficulties are symptomatic of fundamental problems.*
- Characterstic : a quality that is typical of somebody/something and that makes him/her/it different from other people or things. (किसी व्यक्ति या वस्तु का विशिष्ट लक्षण जिसके कारण वह अन्य व्यक्तियों से भिन्न लगता है; अभिलक्षण; विशेषता)
    - *Example: Bananas have their own characteristic smell.*

Correct Answer:*Characteristic.*

⭐ Additional Information

- Let's look at the meaning of other words:
    - Optimistic : expecting good things to happen or something to be successful; showing this feeling. (आशावादी)
    - Strange : unusual or unexpected. (असामान्य या अप्रत्याशित; विचित्र; अजीब)
    - Atypical : not typical of a particular type, group, etc. (असामान्य)

5. Answer: c

Explanation:

The correct answer is ' **Expanse** '.

⭐ **Key Points**

- The most appropriate word for the given group of words is ' **Expanse** '.
- It means **'a large open area (of land, sea, sky, etc.)'.** [(ज़मीन, समुद्र, आकाश का) बड़ा और खुला इलाक़ा]
  - *Example: There is a wide **expanse** of sandy shore, and bathing is excellent.*

Correct Answer: *Expanse.*

⭐ **Additional Information**

- Let's look at the **meaning** of other words:
  - **Front** : the side or surface of something/somebody that faces forward. (किसी व्यक्ति या वस्तु का सामने दिखने वाला हिस्सा)
  - **Margin** : the empty space at the side of a page in a book, etc. (पुस्तक आदि के पृष्ठ पर किनारे की ख़ाली जगह; हाशिया)
  - **Enclosure** : an area that is surrounded by a barrier. (दीवार या बाड़े से घिरी ज़मीन, घेरा आदि जिसका प्रयोग किसी विशेष उद्देश्य के लिए होता है)

6. Answer: a

Explanation:

The correct answer is ' **Skinny** '.

⭐ **Key Points**

- The most appropriate antonym of the given word ' **Obese** ' is ' **Skinny** '.

- **Obese** : (used about people) very fat, in a way that is not healthy. [(व्यक्ति) बहुत मोटा, स्थूलकाय (जो स्वस्थ होने का लक्षण नहीं)]
  - *Example: Obese patients are advised to change their diet.*
- **Skinny** : (used about a person) too thin. [(व्यक्ति) दुबला-पतला; सींकिया]
  - *Example: At school, I was fairly skinny and undersized.*

<u>Correct Answer:</u>*Skinny.*

⭐ <u>Additional Information</u>

- Let's look at the **meaning** of other words:
  - **Rude** : not polite. [अशिष्ट (किसी के प्रति) (किसी बात पर)]
  - **Paunchy** : having a large or protruding belly. (एक बड़ा या फैला हुआ पेट होना)
  - **Cute** : attractive; pretty. (आकर्षक; सुंदर)

---

7. **Answer: c**

Explanation:

The correct answer is 'have been attacking'.

⭐ <u>Key Points</u>

- In the given sentence, 'have been attacking' should be used instead of 'has been attacking'.
- The given sentence is an example of **subject-verb agreement.**
- Here, in the given sentence ' **have** ' should be used instead of ' **has** '.
- ' **Gangs** ' is **a plural noun** . So, ' **have** ' should be used.

<u>Correct Sentence:</u>*The police warned citizens to be alert when outdoors as gangs have been attacking people on the road.*

⭐ <u>Hinglish</u>

- दिए गए वाक्य में ' has been attacking' के स्थान पर 'have been attacking'   का प्रयोग किया जाना चाहिए।
- दिया गया वाक्य **Subject-Verb agreement** का एक उदाहरण है।

- यहाँ दिए गए वाक्य में ' **has** ' के स्थान पर ' **have** ' का प्रयोग होना चाहिए।
- ' **Gangs** ' एक **plural noun** है। इसलिए ' **have** ' का प्रयोग करना चाहिए।

---

8. Answer: b

Explanation:

The erroneous spelling is ' **Voilent** '.

⭐ **Key Points**

- Among the given options, the incorrectly spelt word is ' **Voilent** '.
- Its correct spelling is ' **Violent** '.
- It means '**using or involving physical force intended to hurt, damage, or kill someone or something**'. (हिंसक)
  - *Example: The demonstration started peacefully but later turned **violent** .*

⭐ **Additional Information**

- Let's look at the **meaning** of other words:
  - **Iodine** : a dark-colored substance that is found in sea water. A purple liquid containing iodine is sometimes used to clean cuts in your skin. [समुद्र जल में पाया जाने वाला काले रंग का पदार्थ, आयोडीन (आयोडीन युक्त बैंगनी रंग के द्रव से कभी-कभी त्वचा के कटे स्थान को साफ़ किया जाता है)]
  - **Enjoin** : instruct or urge (someone) to do something. [निर्देश या आग्रह (किसी को) कुछ करने के लिए]
  - **Loiter** : to stand or walk around somewhere for no obvious reason. (अकारण कहीं खड़े हो जाना या इधर-उधर घूमना; मटरगश्ती या आवारागर्दी करना)

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9. Answer: b

Explanation:

The correct answer is '**To become friends quickly**'.

⭐ Key Points

- The most appropriate meaning of the given idiom **'Get on like a house on fire'** is **'To become friends quickly'.**
- **Get on like a house on fire** : If two people get on like a house on fire, they like each other very much and become friends very quickly. (अगर दो लोग Get on like a house on fire की तरह हो जाते हैं, तो वे एक-दूसरे को बहुत पसंद करते हैं और बहुत जल्दी दोस्त बन जाते हैं)
  - *Example: I was worried that they wouldn't like each other but in fact, they're getting on like a house on fire.*

Correct Answer: *To become friends quickly.*

---

10. **Answer: c**

Explanation:

The correct answer is ' **Unattractive** '.

⭐ Key Points

- The most appropriate antonym of the given word ' **Stunning** ' is ' **Unattractive** '.
- **Stunning** : very attractive, impressive or surprising. (बहुत आकर्षक, प्रभावशाली या चकित कर देने वाला; अकल्पनीय)
  - *Example: His speech in the Euro debate was hardly stunning .*
- **Unattractive** : not attractive, pretty or pleasant to look at. (देखने में न तो सुंदर और न ही आकर्षक एवं लुभावना; अनाकर्षक)
  - *Example: One of his shirts would certainly be unattractive on her body.*

Correct Answer: *Unattractive.*

⭐ Additional Information

- Let's look at the **meaning** of other words:
  - **Impulsive** : likely to act suddenly and without thinking; done without careful thought. (बिना विचार के सहसा काम करने वाला, आवेगशील; बिना सोच-विचार के किया हुआ, आवेगपूर्ण)
  - **Obedient** : doing what you are told to do. (आज्ञाकारी)

- Gorgeous : extremely pleasant or attractive. (अत्यंत प्रीतिकर या आकर्षक, भव्य, शानदार)

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11. Answer: b

Explanation:

The erroneous part is 'the anti-race cause'.

⭐ Key Points

- The given sentence is grammatically incorrect.
- Here, 'the anti-racism cause' should be used instead of 'the anti-race cause'.
- In the given sentence the word 'anti-race' is wrong.
- We say 'anti-racism'.
- It means 'the policy or practice of opposing racism and promoting racial tolerance'.

Correct Sentence: *Tejaswin, the Indian sportsman, is leading the anti-racism cause in the US.*

⭐ Hinglish

- दिया गया वाक्य व्याकरण की दृष्टि से गलत है।
- यहां 'the anti-race cause' के स्थान पर 'the anti-racism cause' का प्रयोग किया जाना चाहिए।
- दिए गए वाक्य में 'anti-race' शब्द गलत है।
- हम कहते हैं 'anti-racism' ।
- इसका अर्थ है 'नस्लवाद का विरोध करने और नस्लीय सहिष्णुता को बढ़ावा देने की नीति या प्रथा'।

---

12. Answer: a

Explanation:

The correct answer is ' Bombastic '.

⭐ <u>Key Points</u>

- The most appropriate word for the given group of words is ' **Bombastic** '.
- It means **'high-sounding but with little meaning'.** (उच्च ध्वनि लेकिन कम अर्थ के साथ)
  - *Example: He is best known for three rather **bombastic** poems.*

<u>Correct Answer:</u>*Bombastic.*

⭐ <u>Additional Information</u>

- Let's look at the **meaning** of other words:
  - **Eloquent** : able to use language and express your opinions well, especially when you speak in public. (सार्वजनिक प्रसंग में वाणी का प्रयोग करने में दक्ष; वाक्चतुर)
  - **Clever** : able to learn, understand or do something quickly and easily; intelligent. (चतुर, सयाना; बुद्धिमान)
  - **Reserved** : shy and keeping your feelings hidden. (संकोची तथा मनोभावों को छिपाकर रखने वाला)

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13. **Answer: d**

Explanation:

Here the correct answer is **Assemble** .

⭐ <u>Key Points</u>

- In the above-given sentence, ' **assemble** ' will be used.
- It is so because **'after a modal verb (here, can), base form of the verb should be used'.**
- For Examples:-
  - We **can eat** leftovers for dinner.
  - They **can run** fast.
- Base form of the given word is ' **assemble** '.
- Thus, the corect answer is **Option 4.**

⭐ <u>Hinglish</u>

- ऊपर दिए गए वाक्य में ' **assemble** ' का प्रयोग होगा।
- ऐसा इसलिए है क्योंकि '**एक modal verb के बाद** (यहाँ, can) , क्रिया के आधार रूप का उपयोग किया जाना चाहिए'।
- उदाहरण के लिए:-
  - We can eat leftovers for dinner.
  - They can run fast.
- दिए गए शब्द का आधार रूप ' **assemble** ' है।
- इस प्रकार, सही उत्तर **विकल्प 4** है।

---

14. Answer: b

Explanation:

The correct answer is ' **Extreme** '.

⭐ <u>Key Points</u>

- The most appropriate synonym of the given word ' **Rabid** ' is ' **Extreme** '.
- **Rabid** : having or proceeding from extreme or fanatical support of or belief in something. (किसी चीज में अत्यधिक या कट्टर समर्थन या विश्वास होना)
  - *Example: **Rabid** viewers of the television show repeatedly watch their favorite episodes.*
- **Extreme** : much stronger than is considered usual, acceptable, etc. (अतिवादी)
  - *Example: Her **extreme** views on immigration are shocking to most people.*

<u>Correct Answer:</u>*Extreme.*

⭐ <u>Additional Information</u>

- Let's look at the **meaning** of other words:
  - **Calm** : not excited, worried, or angry; quiet. (शांत, चुपचाप)
  - **Methodical** : having or using a well-organized and careful way of doing something. [सावधानी से और सुव्यवस्थित रीति से किया (काम) या करने वाला (व्यक्ति)]
  - **Indifferent** : not interested in or caring about somebody/something. (व्यक्ति या वस्तु में रुचि या सोच-विचार से रहित; उदासीन)

15. Answer: b

Explanation:

The erroneous spelling is ' **Concieve** '.

⭐ **Key Points**

- Among the given options, the incorrectly spelled word is '**Concieve**'.
- Its correct spelling is ' **Conceive** '.
- It means '**to think of a new idea or plan**'. (नया विचार आना या नई योजना के बारे में सोचना)
  - *Example: He **conceived** the idea for the novel during his journey through India.*

⭐ **Additional Information**

- Let's look at the **meaning** of other words:
  - **Grieve** : to feel great sadness (especially about the death of somebody you love). [(प्रियजन के निधन पर) गहरी उदासी होना]
  - **Deceive** : to try to make somebody believe something that is not true. (बहकाना, भ्रमित करना)
  - **Receive** : to get or accept something that somebody sends or gives to you. [प्राप्त या स्वीकार करना (दूसरे के द्वारा भेजी या दी गई वस्तु को)]

16. Answer: c

Explanation:

The correct answer is ' **return** '.

⭐ **Key Points**

- The most appropriate word for the given blank is ' **return** '.
- It means 'to come or go back to a place'.
  - *Example: I leave on 10 July and **return** on 6 August.*

- In the given context the base form of the verb should be used because the base form is used for commands (i.e., the imperative mood).
- Hence, ' **return** ' is the correct answer.

Correct Sentence: *Several foreign students have been asked by the US to leave the university campus and* **return** *home.*

⭐ Hinglish

- दिए गए रिक्त स्थान के लिए सबसे उपयुक्त शब्द ' **return** ' है।
- इसका अर्थ है '**किसी स्थान पर आना या वापस जाना**' ।
  - *Example: I leave on 10 July and* **return** *on 6 August.*
- दिए गए संदर्भ में क्रिया के मूल रूप का उपयोग किया जाना चाहिए क्योंकि **base form** का उपयोग आदेशों के लिए किया जाता है (अर्थात, imperative mood)।
- अतः ' **return** ' सही उत्तर है।

---

17. **Answer: c**

Explanation:

The correct answer is '**formula**'.

⭐ Key Points

- The most appropriate word for the given blank is '**formula**'.
- It means '**a group of signs, letters or numbers used in science or mathematics to express a general law or fact**'. (विज्ञान या गणितशास्त्र में सामान्य नियम और तथ्य को प्रस्तुत करने के लिए प्रयुक्त चिह्नों, अक्षरों, संख्याओं का समूह; सूत्र, फ़ार्मूला)
  - *Example: His father is acting on his* **formula** *.*
- We tend to go for **option 1** but it would be wrong because it is the plural form of ' formula '.
- We know that after the indefinite article '**a/an**' **singular** noun is used.
- Hence, **option 3** is the correct answer.

Correct Sentence: *The CBSE has decided on a* **formula** *to assign marks for the examinations not taken by Class 12 students.*

18. **Answer: a**

Explanation:

The correct answer is **'To want something very much'.**

⭐ **Key Points**

- The most appropriate meaning of the given idiom **'Have your heart set on something'** is **'To want something very much'.**
- **Have your heart set on something:** to want something very much, so that you would be very disappointed if you do not get it. (किसी चीज की बहुत ज्यादा चाहत रखना, ताकि न मिलने पर आपको बहुत निराशा हो)
  - *Example: She's got her **heart set on ballet** lessons.*

Correct Answer: *To want something very much.*

19. **Answer: c**

Explanation:

The erroneous part is **'Google has set on'.**

⭐ **Key Points**

- The given sentence is grammatically incorrect.
- Here, ' **Google has set up** ' should be used instead of ' **Google has set on** '.
- In the given sentence the phrasal verb ' **set up** ' fits the best.
- **Set up:** establish a business, institution, or other organization. (एक व्यवसाय, संस्था, या अन्य संगठन स्थापित करें)
  - *Example: She **set up** the business with a £4,000 bank loan.*

Correct Sentence: *Google has set up an India fund and announced an investment of ten billion dollars.*

20. **Answer: c**

Explanation:

The erroneous part is 'have been cut'.

⭐ **Key Points**

- The given sentence is grammatically incorrect.
- Here, 'has cut' should be used instead of 'have been cut'.
- The given sentence is an example of **subject-verb agreement.**
- As per the rules of the **subject-verb agreement,** the **verb** in a sentence should be according to its **subject** .
- In the given sentence ' **Sitab** ' is the main **subject** that is **singular** .
- Hence, a singular helping verb ' **has** ' should be used.
- Here, ' **been** ' should be removed because the given sentence is in the **active voice.**

Correct Sentence: *Sitab, my gardener,* ***has cut*** *the hedge the whole morning.*

⭐ **Hinglish**

- दिया गया वाक्य व्याकरण की दृष्टि से गलत है।
- यहां 'have been cut' के स्थान पर 'has cut' का प्रयोग किया जाना चाहिए।
- दिया गया वाक्य **subject-verb agreement** का एक उदाहरण है।
- **Subject-Verb agreement** के नियमों के अनुसार वाक्य में **verb** अपने **subject** के अनुसार होनी चाहिए।
- दिए गए वाक्य में ' **Sitab** ' मुख्य विषय है जो **singular** है।
- इसलिए, एकवचन **helping verb 'has'** का प्रयोग किया जाना चाहिए।
- यहाँ ' **been** ' को हटा देना चाहिए क्योंकि दिया गया वाक्य **active voice** में है।

21. **Answer: c**

Explanation:

The correct answer is ' **of** '.

⭐ <u>Key Points</u>

- The most appropriate preposition for the given blank is ' **of** '.
- In the given context, it means '**belonging to, connected with, or part of something/somebody'.** (किसी व्यक्ति या वस्तु के स्वामित्ववाला, से संबंधित या उसका भाग; का)
- It is **used to show possession, belonging, or origin** .
  - *Example: She has the face* **of** *an angel.*
- Thus, the correct answer is **Option 3** .

<u>Correct Paragraph:</u>*The first thousand days can determine the trajectory<u>of</u>a child's life. After food for the body (2)_ _ _ _ _ _ _taken care of we should provide food for (3)_ _ _ _ _ _ _mind. Early stimulation of children's mind can (4)_ _ _ _ _ _them to become good learners. Parents should be (5)_ _ _ _ _ _ _ _ _in doing this.*

---

22. **Answer: c**

Explanation:

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

⭐ <u>Key Points</u>

- The most appropriate verb for the given blank is ' **is** '.
- The given sentence is in the **passive voice.**
- The structure of these kinds of sentences is: **Subject + is/am/are + V3 + Object. (Passive Voice)**
  - *Example: English* **is taught** *by Aastha. (Passive Voice)*
- Here, the subject '**the body'** is **singular** . Hence, a **singular helping verb** should be used.

<u>Correct Paragraph:</u> *The first thousand days can determine the trajectory<u>of</u>a child's life. After food for the body<u>is</u>taken care of we should provide food for (3)_ _ _ _ _ _ _mind. Early stimulation of children's mind can (4)_ _ _ _ _ _them to become good learners. Parents should be (5)_ _ _ _ _ _ _ _ _in doing this.*

23. **Answer: d**

Explanation:

The correct answer is ' **the** '.

⭐ **Key Points**

- The most appropriate word for the given blank is ' **the** '.
- The definite article ' the ' should be used because 'the' before a noun shows that what is referred to is already known to the speaker, listener, writer, and/or reader (it is the definite article).
  - *Example: We had to paint **the** apartment before we sold it. (The speaker and the listener know what apartment is being referred to.)*

Correct Paragraph:*The first thousand days can determine the trajectory of a child's life. After food for the body is taken care of we should provide food for*the*mind. Early stimulation of children's mind can (4)_____them to become good learners. Parents should be (5)_____in doing this.*

24. **Answer: a**

Explanation:

The correct answer is ' **lead** '.

⭐ **Key Points**

- The most appropriate word for the given blank is ' **lead** '.
- We know that after **modal verb** the **base form** of the **verb** is used without **'s/es'**.
- Hence, ' **lead** ' should be used.

Correct Paragraph:*The first thousand days can determine the trajectory of a child's life. After food for the body is taken care of we should provide food for the*mind. Early*

stimulation of children's mind can__lead__them to become good learners. Parents should be (5)_____in doing this.

---

25. Answer: d

Explanation:

The correct answer is ' **oriented** '.

⭐ <u>Key Points</u>

- The most appropriate word for the given blank is ' **oriented** '.
- It means '**for or interested in a particular type of person or thing; tailor or adapt (something) to specified circumstances** '. (निर्दिष्ट परिस्थितियों में कुछ अनुकूलित करना)
    - *Example: The shop sells male-* **oriented** *products.*
- As per the given meaning of the above definitions, ' **oriented** ' fits the best.

<u>Correct Paragraph:</u>*The first thousand days can determine the trajectory <u>of</u> a child's life. After food for the body <u>is</u> taken care of we should provide food for the__mind. Early stimulation of children's mind can <u>lead</u> them to become good learners. Parents should be__oriented__in doing this.*

⭐ <u>Additional Information</u>

- Let's look at the **meaning** of other words:
    - **adjusted** : to change something slightly, especially because it is not in the right position. (थोड़े से परिवर्तन के साथ किसी वस्तु को ठीक स्थिति में लाना; मेल बैठना, समायोजित करना)
    - **restricted** : controlled or limited. (नियंत्रित या सीमित)
    - **allocated** : to give something to somebody as his/her share or to decide to use something for a particular purpose. (किसी कार्य के लिए धनराशि आदि निर्धारित करना; हिस्से के रूप में बाँटना)

---

26. Answer: b

Explanation:

The lease possible Venn diagram for the given statements is as shown below :
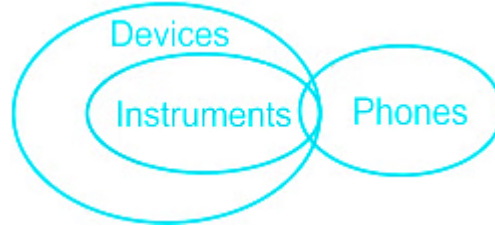
Conclusions:

I. All devices are instruments → False (As All instruments are devices so All devices are instruments is false)

II. Some devices are phones → True (As All instruments are devices and Some phones are instruments so, Some devices are phones is true)

Hence, the correct answer is **"Only conclusion II follows"**.

---

27. Answer: c

Explanation:

After unfolding the paper the image formed is as shown below :
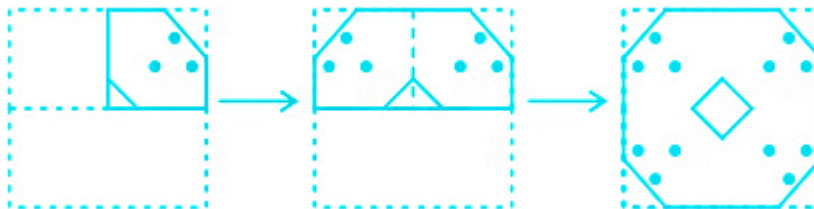
Hence, the correct answer is **"Option 3"**.

---

28. Answer: c

Explanation:

The logic followed here is :-

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

MATERIAL is coded as SZLREKZH

```
(13)  (1)  (20) (5)  (18) (9)  (1)  (12
 M    A    T    E    R    I    A    L
        -1        -1           -1        -1
           ↓ -1                  ↓ -1
 S    Z    L    R    E    K    Z    H
(19) (26) 12) (18) (5)  (11) (26) (8)
```
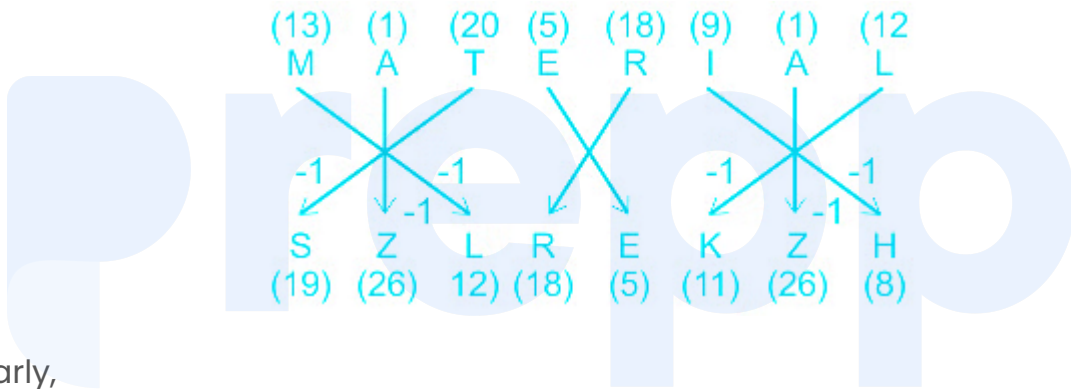
Similarly,

EQUATION will be coded as :

```
(5)  (17) (21) (1)  (20) (9)  (15) (14)
 E    Q    U    A    T    I    O    N
  -1        -1              -1        -1
        ↓ -1                  ↓ -1
 T    P    D    T    A    M    N    H
(20) (16) (4)  (20) (1)  (13) (14) (8)
```
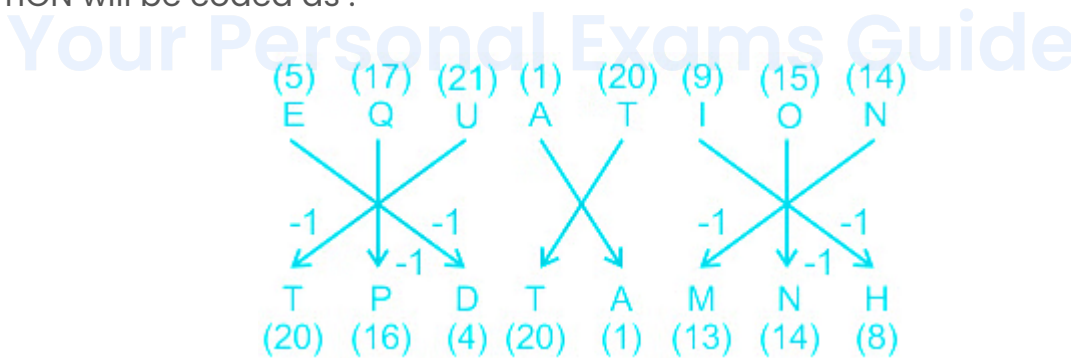
Hence, the correct answer is **"TPDTAMNH"**.

---

29. **Answer: d**

Explanation:

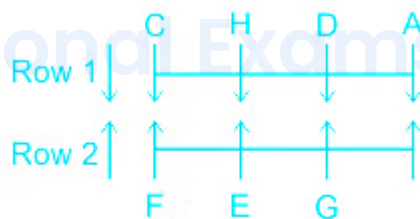Given: Eight houses A, B, C, D, E, F, G and H are in two rows with four houses in each row
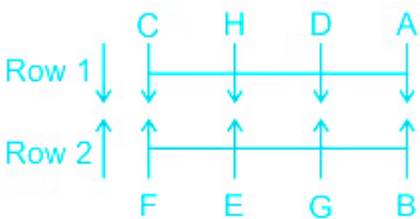
1) C is facing F.

2) H is between D and C.
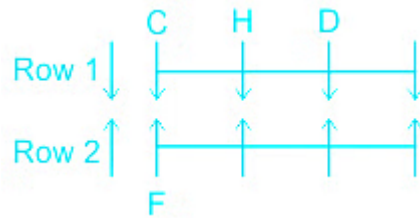
3) E is facing H, but is not in the same row as that of A.
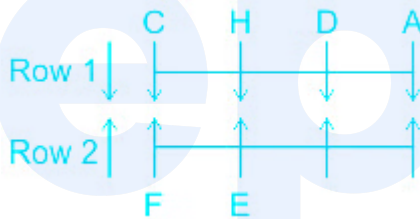
4) G and A are diagonally opposite.

5) All houses are arranged as shown below.

∴ Here, the house facing B is 'A'.

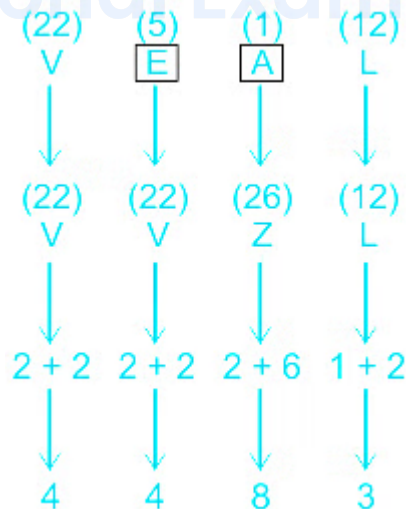Hence, the correct answer is **"A"**.

---

30. **Answer: d**

Explanation:

The logic followed here is :-

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

1) Consonants alphabet positional value remains same and two digit alphabet positional values given sum of one's and ten's place of that value.

2) Vowels opposite alphabet positional value is taken and two digit alphabet positional values given sum of one's and ten's place of that value.
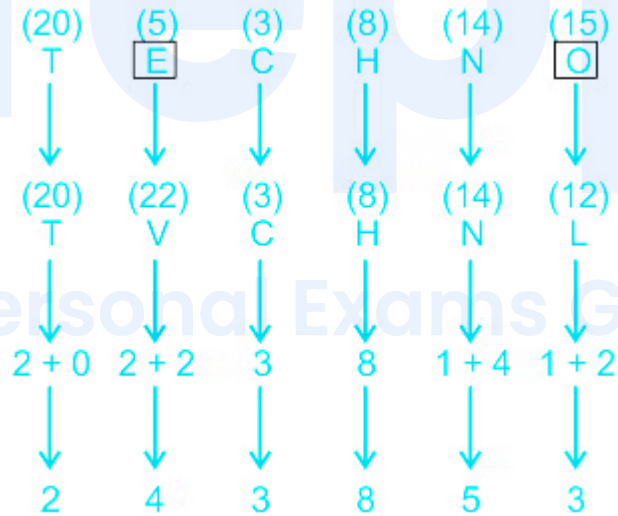
VEAL is coded as 4483

and

LOWER is coded as 33549

(12) L	(15) ⬜O	(23) W	(5) ⬜E	(18) R
↓	↓	↓	↓	↓
(12) 12	(12) 12	(23) W	(22) V	(184) R
↓	↓	↓	↓	↓
1 + 2	1 + 2	2 + 3	2 + 2	1 + 8
↓	↓	↓	↓	↓
3	3	5	4	9
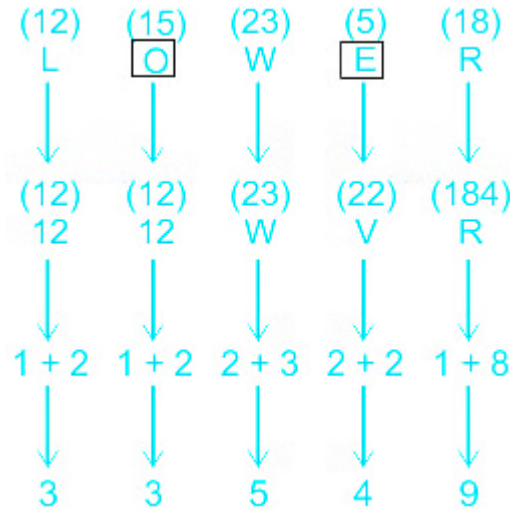
Similarly,

TECHNO will be coded as :

(20) T	(5) ⬜E	(3) C	(8) H	(14) N	(15) ⬜O
↓	↓	↓	↓	↓	↓
(20) T	(22) V	(3) C	(8) H	(14) N	(12) L
↓	↓	↓	↓	↓	↓
2 + 0	2 + 2	3	8	1 + 4	1 + 2
↓	↓	↓	↓	↓	↓
2	4	3	8	5	3

Hence, the correct answer is **"243853"**.

---

31. **Answer: b**

Explanation:

The figure would come next in the following figure series is as shown below :

- Circle, Rectangle, Triangle and Rhombus moves one step anti-clockwise from figure to figure.
- Pattern inside circle and triangle is interchanged from figure to figure.
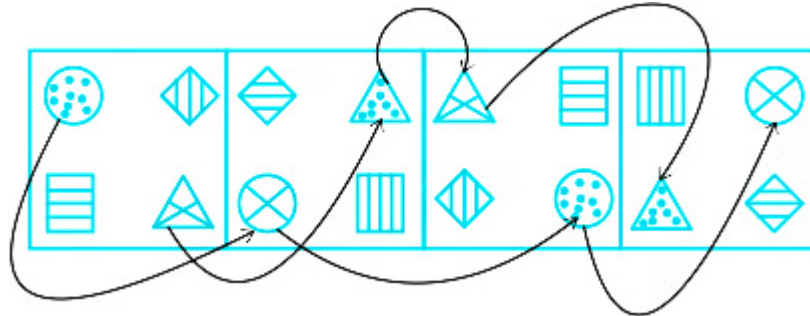
- Rhombus is rotated 90 0 clockwise or anticlockwise and moves one step anti-clockwise from figure to figure.

Hence, the correct answer is **"Option 2".**

---
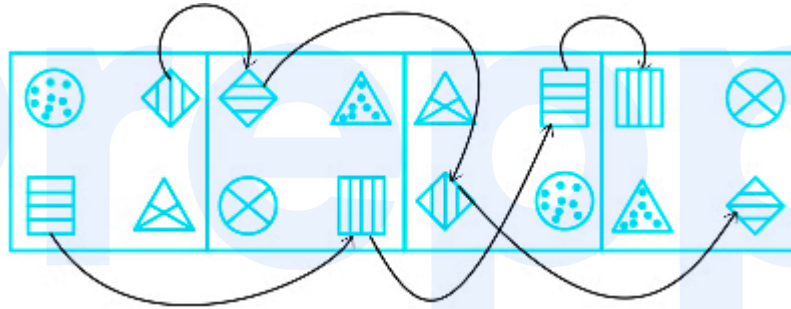
32. **Answer: b**

Explanation:

The logic followed here is :-

Sum of 1st, 2nd and third number is 80.

{25, 19, 36} → 25 + 19 + 36 = 80

Similarly,

1) {9, 49, 16} → 9 + 49 + 16 = 74

2) {20, 28, 32} → 20 + 28 + 32 = 80

3) {30, 25, 35} → 30 + 25 + 35 = 90

4) {36, 23, 48} → 36 + 23 + 48 = 107

Hence, the correct answer is **"{20, 28, 32}"**.

---

33. **Answer: d**

Explanation:

The logic followed here is :-

Seven persons visited a doctor for consultation, one after another

1) Mahesh visited immediately after Amit but **sometime** before Virat.

Numbers	Persons
1.	Amit
2.	Mahesh
3.	Virat
4.	Virat
5.	Virat
6.	Virat
7.	Virat

2) Ashok visited just after Virat and just before Naman and Neither Anup nor Naman was the last to visit.

Numbers	Persons (i)	Persons (ii)
1.	Amit	Amit
2.	Mahesh	Mahesh
3.	Virat	Anup
4.	Ashok	Virat
5.	Naman	Ashok
6.	Anup	Naman
7.	Suraj	Suraj

3) There were as many visitors between Ashok and Suraj as there were between Anup and Ashok.

Numbers	Persons
1.	Amit
2.	Mahesh
3.	Anup
4.	Virat
5.	Ashok
6.	Naman
7.	Suraj

∴Here, the first and the last persons visited the doctor are Amit and Suraj.

Hence, the correct answer is **"Amit and Suraj"**.

---

34. **Answer: c**

Explanation:

The logic followed here is:

The letter-cluster that will replace the question mark (?) of given series is as shown below :

Hence, the correct answer is "ITOE".

---

35. **Answer: d**

Explanation:

The possible Venn diagram for the given statements is as shown below :
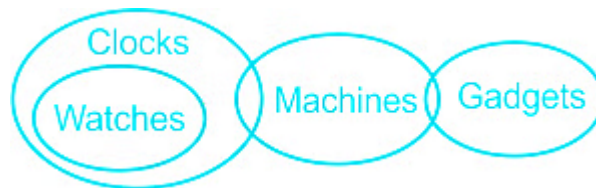
Conclusions:

I. Some watches are machines → False (As All watches are clocks and Some clocks are machines so, Some watches are machines is not definite hence false)

II. Some machines are clocks → True (As Some clocks are machines so, Some machines are clocks is true)

III. Some gadgets being clocks is a possibility → True (Possibility is true as shown below)
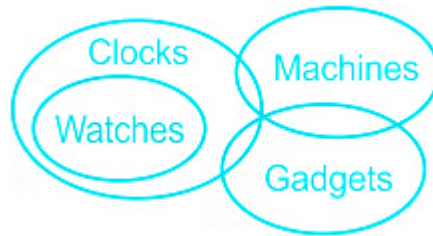
Hence, the correct answer is **"Only conclusions II and III follow"**.

---

36. Answer: b

Explanation:

The logic followed here is :-

1) Six friends A, B, C, D, E and F are standing in a line facing North

Given If E is NOT at an extreme end

2) C is on the extreme left.

3) There is one person between A and F.
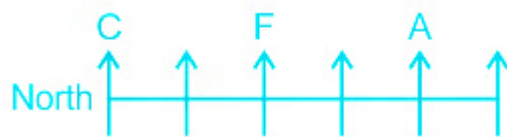
Case (i) :

Case (ii) :

Case (iii) :

Case (iv) :

Case (v) :

Case (vi) :

4) B and E have two persons between them.

Case (i) :

v

```
      C   E       F   B   A
      ↑   ↑       ↑   ↑   ↑   ↑
North ├───┼───┼───┼───┼───┤
```

ii) :

```
      C   B       F   E   A
      ↑   ↑   ↑   ↑   ↑   ↑
North ├───┼───┼───┼───┼───┤
```

5) F is between B and D.

v

```
      C   E   D   F   B   A
      ↑   ↑   ↑   ↑   ↑   ↑
North ├───┼───┼───┼───┼───┤
```

∴ Here 'A' is at extreme right in line.

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

37. Answer: c

Explanation:

The logic followed here is :-

61 : 97

```
        61      :      97
        │              │
        ↓              ↓
   (10 × 6) +1    (12 × 8) +1
     └───┐         ↑    ↑
      +2 └─────────┘    │
                        │
            +2 ─────────┘
```
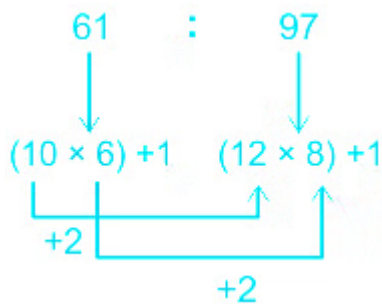
Similarly,
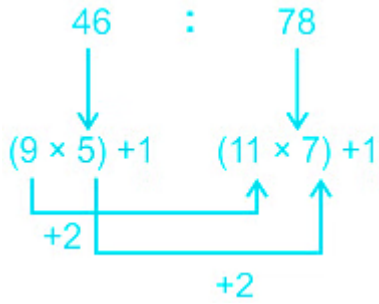
46 : 78

Hence, the correct answer is **"46 : 78".**

---

38. Answer: d

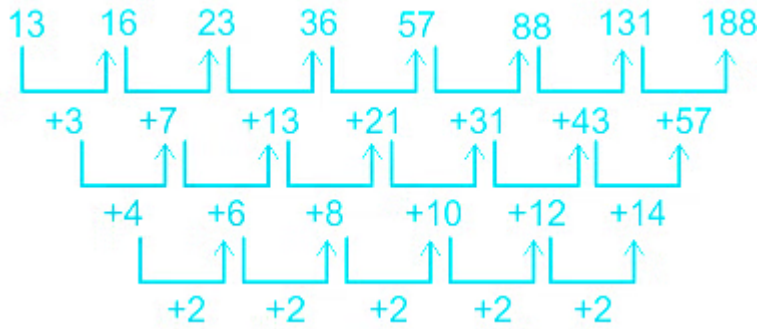## Explanation:

The paper when unfolded appear as shown below-

Hence, **"option 1"** is the correct answer.

---

39. Answer: c

Explanation:

The logic followed here is :-

13   16   23   36   57   88   131   188

+3   +7   +13   +21   +31   +43   +57

+4   +6   +8   +10   +12   +14

+2   +2   +2   +2   +2

Hence, the correct answer is **"131"**.

---

40. Answer: b

Explanation:

The logic followed here is :-

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

FJNRVZ : KLEWXQ

(6)   (10) (14) (18) (22) (26)
F   J   N   R   V   Z

-3   -1   -3   -1
        +2   +2

K   L   E   W   X   Q
(11) (12) (5)   (23) (24) (17)
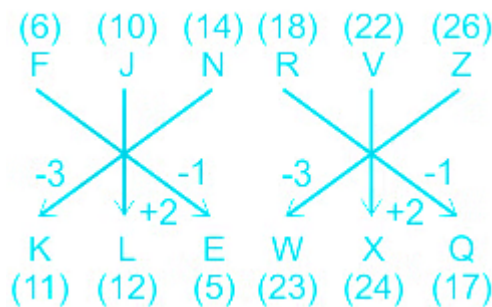
Similarly,

WTQNKH : ?
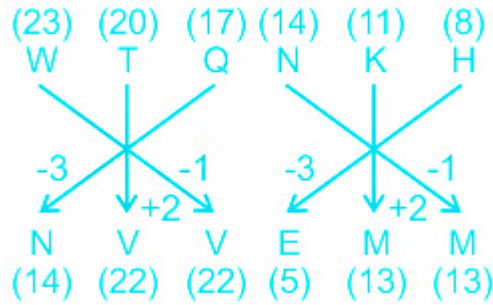
Hence, the correct answer is **"NVVEMM".**

---

41. Answer: b

Explanation:

The figure is hidden/embedded are given below -

Hence, "option 2" is the correct answer.

---

42. Answer: b

Explanation:

The logic followed here is :-

Euro is official currency of Germany

Similarly,

Kyat is official currency of Myanmar.
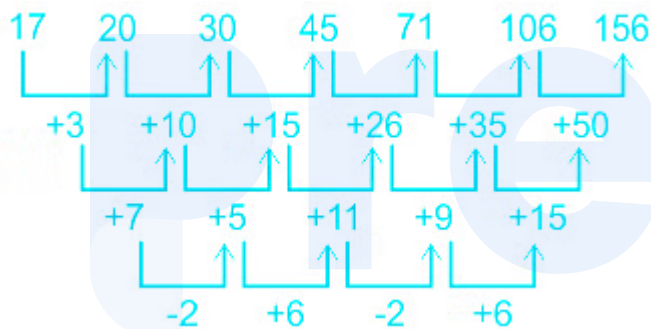
Hence, the correct answer is "Kyat".

⭐ Important Points

- Dollar is currency of United states and nearly 11 countries adopted dollar as their official currency
- Dinar is currency of Kuwait and used in several middle eastern countries.
- Pound is currency of United kingdom.

---

43. Answer: d

Explanation:

The logic followed here is :-

⭐ Alternate Method

$17 + (2^2 - 1) = 17 + 3 = 20$

$20 + (3^2 + 1) = 20 + 10 = 30$

$30 + (4^2 - 1) = 30 + 15 = 45$

$45 + (5^2 + 1) = 45 + 26 = 71$

$71 + (6^2 - 1) = 71 + 35 = 106$

$106 + (7^2 + 1) = 106 + 50 = 156$

Hence, the correct answer is **"156"**.

---

44. Answer: a

Explanation:

The logic followed here is :-

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

Multiplication of alphabet positional value + 3

DEAF is coded as 123

$$D \quad E \quad A \quad F$$
$$\downarrow \quad \downarrow \quad \downarrow \quad \downarrow$$
$$4 \quad 5 \quad 1 \quad 6$$

$\Rightarrow (4 \times 5 \times 1 \times 6) + 3 = 120 + 3 = 123$

and

CAN is coded as 45

$$C \quad A \quad N$$
$$\downarrow \quad \downarrow \quad \downarrow$$
$$3 \quad 1 \quad 14$$

$\Rightarrow (3 \times 1 \times 14) + 3 = 42 + 3 = 45$

Similarly,

BEAK will be coded as :

B   E   A   K
↓   ↓   ↓   ↓
2   5   1   11

⇒ (2 × 5 × 1 × 11) + 3 = 110 + 3 = 113

Hence, the correct answer is **"113"**.

---

45. Answer: c

Explanation:

The logic followed here is :-

By using BODMAS RULE :

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

Option 1) : 8 + 12 × 3 ÷ 1 = 4

Given equation : 8 + 12 × 3 ÷ 1 = 4

After interchanging signs + and ÷ the equation is as follows :

⇒ 8 ÷ 12 × 3 + 1 = 4

⇒ 0.66 × 3 + 1 = 4

⇒ 2 + 1 = 4

⇒ 3 ≠ 4

LHS ≠ RHS

Option 2) : 15 − 12 + 6 ÷ 2 = 13

Given equation : 15 − 12 + 6 ÷ 2 = 13

After interchanging signs + and ÷ the equation is as follows :

⇒ 15 − 12 ÷ 6 + 2 = 13

⇒ 15 − 2 + 2 = 13

⇒ 17 − 2 = 13

⇒ 15 ≠ 13

LHS ≠ RHS

Option 3) : 9 + 6 × 4 ÷ 2 = 8

Given equation : 9 + 6 × 4 ÷ 2 = 8

After interchanging signs + and ÷ the equation is as follows :

⇒ 9 ÷ 6 × 4 + 2 = 8

⇒ 1.5 × 4 + 2 = 8

⇒ 6 + 2 = 8

⇒ 8 = 8

LHS = RHS

Option 4) : 4 ÷ 8 + 12 × 6 = 10

Given equation : 4 ÷ 8 + 12 × 6 = 10

After interchanging signs + and ÷ the equation is as follows :

⇒ 4 + 8 ÷ 12 × 6 = 10

⇒ 4 + 0.66 × 6 = 10

⇒ 4 + 4 = 10

⇒ 8 ≠ 10

LHS ≠ RHS

Hence, the correct answer is **"9 + 6 × 4 ÷ 2 = 8"**.

46. Answer: c

Explanation:

The correct mirror image of the given figure when the mirror is held at the right side is:
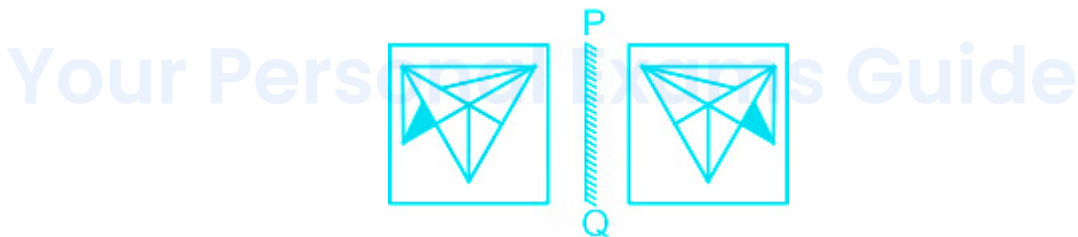
Hence, **"option (3)"** is the correct answer.

47. Answer: d

Explanation:

The logic followed here is :-

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

HARBOUR is coded as BORUARH

Similarly,

RAPTURE will be coded as :

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

48. **Answer: c**

Explanation:

The logic followed here is:-

Sour : Sweet → Sourness can be reduced and diluted when sweet items are added.

- Sour is the antonyms of Sweet.

Similarly,

Wild : **Tame** → Tameness is human direct process to train wild animals to make comfort with humans.

- **Wild is the antonyms of Tame.**

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

---

49. Answer: a

Explanation:

The Venn diagrams best represent the relationship between - Troposphere, Atmosphere, Mesosphere

Troposphere and Mesosphere are layers of earth's atmosphere.
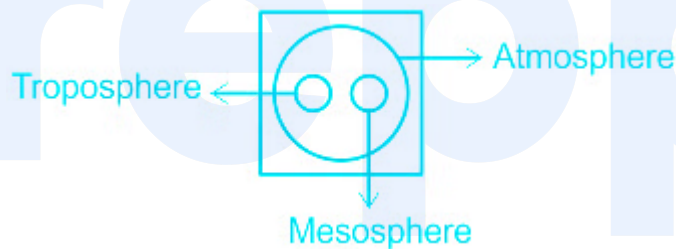
Hence, the correct answer is **"Option 1"**.

---

50. Answer: a

Explanation:

The pattern followed here is :-

By using BODMAS RULE :

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

Option 1) : + and ×

Given equation is : 15 + 15 ÷ 15 − 15 × 15 = 15

After interchanging two signs the equation is as follows :

⇒ 15 × 15 ÷ 15 − 15 + 15 = 15

⇒ 15 × 1 − 15 + 15 = 15

⇒ 15 − 15 + 15 = 15

⇒ 30 − 15 = 15

⇒ 15 = 15

LHS = RHS

Option 2) : + and ÷

Given equation is : 15 + 15 ÷ 15 − 15 × 15 = 15

After interchanging two signs the equation is as follows :

⇒ 15 ÷ 15 + 15 − 15 × 15 = 15

⇒ 1 + 15 − 15 × 15 = 15

⇒ 1 + 15 − 225 = 15

⇒ 16 − 225 = 15

⇒ − 209 ≠ 15

LHS ≠ RHS

Option 3) : + and −

Given equation is : 15 + 15 ÷ 15 − 15 × 15 = 15

After interchanging two signs the equation is as follows :

⇒ 15 − 15 ÷ 15 + 15 × 15 = 15

⇒ 15 − 1 + 15 × 15 = 15

⇒ 15 − 1 + 225 = 15

⇒ 240 − 1 = 15

⇒ 239 ≠ 15

LHS ≠ RHS

Option 4) : ÷ and x

Given equation is : 15 + 15 ÷ 15 − 15 × 15 = 15

After interchanging two signs the equation is as follows :

⇒ 15 + 15 × 15 − 15 ÷ 15 = 15

⇒ 15 + 15 × 15 − 1 = 15

⇒ 15 + 225 − 1 = 15

⇒ 240 − 1 = 15

⇒ 239 ≠ 15

LHS ≠ RHS

Hence, the correct answer is **"+ and × "**.

---

51. Answer: d

Explanation:

Given:

A man ordered 10 physics books and some chemistry books

The price of a chemistry book is twice the price of a Physics book

Calculation:

Let the number of chemistry books be x

Let the price of physics book and chemistry book be Rs. 100 and Rs. 200

12.5% = 1/8

According to the question,

(1000 + 200x) × 7 = 8 × (100x + 2000)

⇒ 7000 + 1400x = 800x + 16000

⇒ 600x = 9000

⇒ x = 15

So, ratio of Physics and Chemistry book = 10 : 15

⇒ 2 : 3

∴ Required ratio is 2 : 3

52. Answer: b

Explanation:

Given:

Average of 7 consecutive even numbers = 36

Concept used:

Average = sum of the elements/number of elements

Calculation:

Let the 7 consecutive even numbers be x, (x + 2), (x + 4), (x + 6), (x + 8), (x + 10) and (x + 12).

⇒ Sum of 7 consecutive even numbers = 36 × 7 = 252

⇒ x + x + 2 + x + 4 + x + 6 + x + 8 + x + 10 + x + 12 = 252

⇒ 7x + 42 = 252

⇒ x = 210/7 = 30

∴ The value of the first number is 30

53. Answer: b

Explanation:

Given:

Speed of the aeroplane = 320 km/h

Time = $5\frac{1}{2}$ hours

Concept used:

Distance = Speed × Time

Calculation:

Total distance = 320 × 5.5

⇒ 1760

Now speed for cover the distance in 4 hours = 1760/4 = 440 km/h

∴ Required speed is 440 km/h

---

54. **Answer: a**

Explanation:

Calculation:

Total number of application received in college A from 2015 to 2019 = 200 + 180 + 200 + 150 + 170

⇒ 900

Number application received in 2016 in college A = 180

Required % = 180/900 × 100

⇒ 20%

∴ Required answer is 20%

---

55. **Answer: c**

Explanation:

Given:

The area of the four walls of a room is 1152 m 2

Height of the room is 12 m

Formula used:
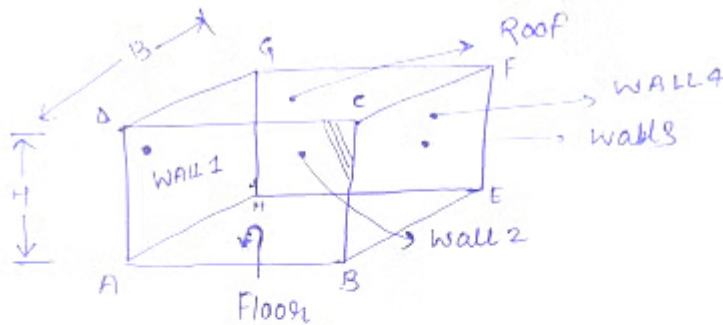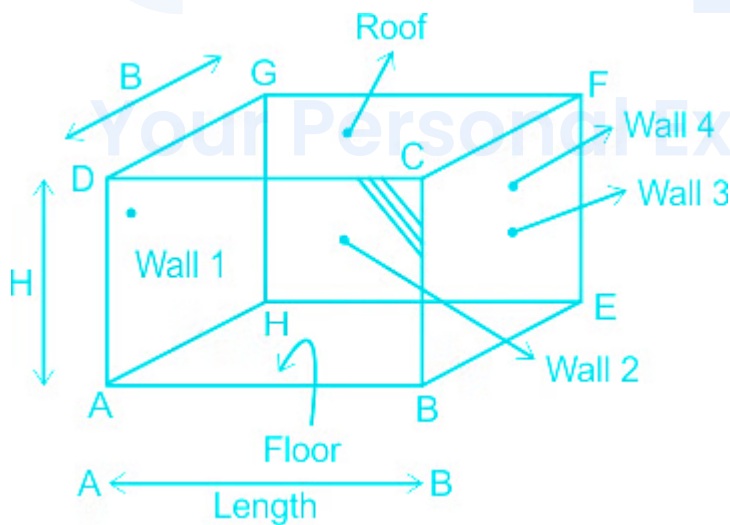
Area of four wall = 2 (l + b) × h

Area of a rectangle = l × b

Calculation:

Let breadth be 3x

So, the length be 5x

According to the question,

2(5x + 3x) × 12 = 1152

⇒ 16x × 12 = 1152

⇒ 16x = 96

⇒ x = 6

Area of the floor = 5x × 3x

⇒ $15x^2$ = 15 × 36

⇒ 540 m^2

∴ **The area of the floor is 540 m^2**

56. **Answer: b**

Explanation:

Given:

Total amount = Rs. 145600

Rate of interest = 10%

Concept used:

S.I = (P × R × T)/100

Calculation:

Let share 1st son be 100x and 2nd son be 100y

Now,

According to the question,

100x + 100x × 3 × 10/100 = 100y + 100y × 5 × 10/100

⇒ 130x = 150y

⇒ x/y = 15/13

So, Ratio of their share = 15 : 13

⇒Younger brother got = 145600 × 13/28

⇒ Rs. 67600

∴ The original share received by younger son is Rs. 67600

---

57. **Answer: b**

Explanation:

Given:

Principal = Rs. 12500

Rate = 12%

Time = 1 year and 4 months

Concept used:

$A = P(1 + r/100)^n$

Calculation:

12% for 12 months

So, for 4 month = 4%

Now,

A = 12500 × (1 + 12/100) × (1 + 4/100)

A = 12500 × 112/100 × 104/100

⇒ 14560

∴ T he amount received is Rs. 14560

---

58. **Answer: d**

Explanation:

Given:

Ratio of three numbers = $\frac{1}{4} : \frac{1}{5} : \frac{1}{3}$

Calculation:

LCM of 4 and 5 and 3 = 60

So, The ratio = 60 × (1/4) : 60 × (1/5) : 60 × (1/3)

⇒ 15 : 12 : 20

Now,

20 – 12 = 800

⇒ 8 = 800

⇒ 1 = 100

⇒ 47 = 4700

∴ Required answer is 4700

---

59. **Answer: b**

Explanation:

Given:

The ratio of the monthly income and expenditure of Dinesh is 17 : 14

Monthly savings = Rs.12000

Calculation:

Let income and expenditure of DInesh be 17x and 14x

According to the question,

17x - 14x = 12000

⇒ 3x = 12000

⇒ x = 4000

So, Income = 17 × 4000 = 68000

New income = 78000

Expenditure = 14 × 4000 = 56000

New expenditure = 56000 - 2000 = 54000

Ratio of new income and new expenditure = 78000 : 54000

⇒ 13 : 9

∴ **The new ratio of his income and expenditure is 13 : 9**

60. **Answer: d**

Explanation:

Given:

A' alone can complete a piece of work for Rs. 4,800 in 16 days

They both complete it in 12 days

Concept used:

Total work = LCM of the time taken by the workers

Calculation:

LCM of 16 and 12 is 48

So, efficiency of A = 48/16 = 3

And efiiciency of both = 48/12 = 4

So, efficiency of the extra person = 4 - 3 = 1

Now, He will get = 4800 × 1/4 = 1200

∴ T he assistant will get Rs. 1200

61. **Answer: b**

Explanation:

Given:

Selling price in 1st case = Rs. 30400

Selling price in 2nd case = Rs. 30700

Calculation:

Let price of radio be Rs. 100x and TV be Rs. 100y

According to question,

125x + 110y = 30400   ----(i)

110x + 125y = 30700   ----(ii)

By substracting (i) from (ii) we get,

15y - 15x = 300

So, y - x = 20

So,

110y - 110x = 2200   ----(iii)

By substracting (iii) from (i) we get,

235x = 28200

⇒ x = 120

So, 100x = 12000

∴ **The cost price of the radio is Rs. 12000**

62. **Answer: c**

Explanation:

Given:

55% of the candidates in an examination were boys

60% of the boys and 75% of the girls passed

315 girls failed

Calculation:

Let total number of candidates in the exam be 100N.

Number of boys in the exam = 55N

Number of girls = 45N

Now,

According to the question,

75% of the girls passed hence 25% of girls failed. So,

45N × 1/4 = 315

⇒ 45N = 1260

⇒ N = 28

So,

55N = 28 × 55

Now, boys who failed = 28 × 55 × 2/5

⇒ 28 × 22 = 616

∴ The number of boys who failed were 616

---

63. **Answer: d**

Explanation:

Given:

Median of the given numbers is 77

Concept used:

For an even set of numbers

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

Here n = number of observation

Calculation:

Total number of observation is 10

So, Median = [(5th + 6th)term/2]

So,

(2x + 1 + 4x + 3)/2 = 77

⇒ 3x + 2 = 77

⇒ 3x = 75

⇒ x = 25

∴ The value of x is 25

---

64. **Answer: a**

Explanation:

Given:

A working alone would take 14 hours more to complete the work than when A and B work together.

B working alone would take $3\frac{1}{2}$ hours more than when A and B work together

Concept used:

If A and B takes a hours and b hours more than time taken by them working together,

Then Time taken by them = √(a.b)

Calculation:

According to the concept,

Time taken by A and B together = $\sqrt{(14 \times 7/2)}$

⇒ 7 hours

∴ The time required to finish the work together is 7 hours

---

65. **Answer: c**

Explanation:

Given:

Discount percentages are 18% and 10.5%

Concept used:

SP = MP − MP × Discount%

Calculation:

Let marked price be 100x

So,

SP = 100x − 18x = 82x [When Discount = 18%]

SP = 100x − 10.5x = 89.5x [When Discount = 10.5%]

According to the question,

89.5x − 82x = 192

⇒ 7.5x = 192

⇒ 100x = 2560

∴ The marked price of the article is Rs.2560

⭐ <u>Shortcut Trick</u>

18% – 10.5% = 192

⇒ 7.5% = 192

⇒ 1% = 25.6

⇒ Marked price = 100% = 100 × 25.6 = Rs. 2560

---

66. Answer: b

Explanation:

Given:

The average of 40% of a number and 33% of the same number is 73

Concept used:

Average = Sum of elements/No. of elements

Calculation:

Let the number be 100x

According to the question,

(40x + 33x)/2 = 73

⇒ 73x = 73 × 2

⇒ x = 2

So, the number is 200

Now, 1/5 of 200 = 40

Prepp

⇒ 1/4 of 200 = 50

Average = (40 + 50)/2 = 45

∴ Required average is 45

---

67. **Answer: c**

Explanation:

Given:

The radius of the base of a cone and also that of a hemisphere each is 14 cm.

The volumes of these two solids are equal.

Concept used:

The volume of a Cone = $1/3 \times \pi R^2 H$

The curved Surface area of a Cone = $\pi R \times L$

Slant Height, $L = \sqrt{(H^2 + R^2)}$

Here, R, H, and L are the radius of the base, Height, and Slant Height respectively.

The volume of a Hemisphere = $2/3 \times \pi R^3$ (R = Radius)

Calculation:

The volume of the hemisphere = $2/3 \times \pi (14)^3$ cm^3

Let the height and slant height of the cone be H and L cm respectively.

According to the question,

$1/3 \times \pi (14)^2 \times H = 2/3 \times \pi (14) 3$

⇒ H = 28

Hence, L = √(28^2 + 14^2) = 14√5 cm

Thus, the curved surface area of the cone = π × 14 × 14√5 = 616 √5 cm^2

∴ **The curved surface area of the cone is 616√5 cm^2.**

---

68. Answer: b

Explanation:

Given:

slant height and the diameter of the base of a right circular cone are 34 cm and 32 cm

Formula used:

Height of a cone = √(Slant height 2 - radius 2)

Volme of a cone = 1/3πr^{2}h

Calculation:

Height of the cone = √(34^2 – 16^2)

⇒ √(1156 – 256)

⇒ √900

⇒ 30

Now,

Volume of the cone = 1/3 × π × 16^2 × 30

⇒ 256π × 10

⇒ 2560π

∴ Its volume is 2560π

---

69. Answer: d

Explanation:

Calculation:

Total number of application received in college A from 2015 to 2019 = 200 + 180 + 200 + 150 + 170

⇒ 900

Average = 900/5 = 180

Total number of application received in college B from 2015 to 2019 = 150 + 220 + 180 + 100 + 270

⇒ 920

Average = 920/5 = 184

Difference = 184 – 180 = 4

∴ Required answer is 4

---

70. Answer: b

Explanation:

Given:

The volume of a cube is 375√3 cm 3

Formula Used:

Volume of a cube = (Side) ^{3}

Diagonal a cube = √3 × side

Calculation:

Side 3 =375√3 cm 3

375√3 = 5× 5× 5× 3× √ 3

$5^3(\sqrt{3})^3$

⇒ Side = 5√3

⇒ Diagonal the cube = √3 × 5√3

⇒ 15 cm

∴ The diagonal the cube is 15 cm

---

71. **Answer: c**

Explanation:

Given:

The sum of two numbers is 60 and their product is 875

Concept used:

$(a + b)^2 - 4ab = (a - b)^2$

Calculation:

$(n_1 + n_2)^2 = 3600$

$(n_1 + n_2)2 - 4n_1n_2 = 3600 - 4 × 875$

$\Rightarrow (n_1 - n_2)2 = 3600 - 3500$

$\Rightarrow (n_1 - n_2)2 = 100$

$\Rightarrow \left(n_1 - n_2 \right) = 10$

So,

$\left(n_1 + n_2 \right) = 60$ and $\left(n_1 - n_2 \right) = 10$

$n_1 = 35$

$n_2 = 25$

HCF of 35 and 25 = 5

∴ The HCF of the numbers is 5

---

72. Answer: b

Explanation:

Given:

Distance = 516 km

Speed of Vaishnav = 44 km/h

Speed of Suman = 52 km/h

Concept used:

Distance = Time × speed

When two objects moving in the opposite direction then,

$S_1 + S_2$

Calculation:

When Suman left from B Vaishnav already travelled 44 × 3 = 132 km [11 am to 2 pm]

So, remaining distance = 516 - 132 = 384

Now, 384 km will be covered by them in 384/96 = 4 hours

So, they will meet at 2 pm + 4 hours = 6 pm

∴ T hey will meet each other at 6 pm

---

73. **Answer: c**

Explanation:

Calculation:

Total number of applications received in college A in 2016 and 2017 = 180 + 200

⇒ 380

Total number of applications received in college B in 2016 and 2017 = 220 + 180

⇒ 400

Ratio = 380 : 400

⇒ 19 : 20

∴ Required ratio is 19 : 20

---

74. **Answer: d**

Explanation:

Given:

CP of each TV set = Rs. 18000

Total TV = 12 pieces

Total SP = Rs. 259200

Concept used:

Profit% = [(SP – CP)CP] × 100

Calculation:

Total CP of 12 TV sets = 12 × 18000

⇒ Rs. 216000

Profit = 259200 – 216000 = 43200

Profit % = 43200/216000 × 100

⇒ 20%

∴ Required answer is 20% profit

---

75. **Answer: a**

Explanation:

Given:

21 × [(9 – 4) ÷ {(8 ÷ 8 of 4) + (4 ÷ 4 of 2)}]

Concept used:

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

Calculation:

21 × [(9 – 4) ÷ {(8 ÷ 8 of 4) + (4 ÷ 4 of 2)}]

⇒ 21 × [(9 – 4) ÷ {(8 ÷ 32) + (4 ÷ 8)}]

⇒ 21 × [5 ÷ {1/4 + 1/2}]

⇒ 21 × [5 ÷ 3/4]

⇒ 21 × 20/3

⇒ 140

∴ Required answer is 140

---

76. **Answer: c**

Explanation:

The correct answer is **Nitin Gadkari.**

⭐ **Key Points**

- **Nitin Gadkari** was the Union Minister of Road Transport and Highways.
- The main Responsibilities of this ministry are Planning, development and maintenance of National Highways in the country.

⭐ **Additional Information**

- List of cabinet ministers: (March 2022)

Shri Amit Shah	1. Ministry of Home Affairs 2. Ministry of Cooperation
Shri Rajnath Singh	Ministry of Defence
Shri Nitin Jairam Gadkari	1. Ministry of Road Transport and Highways
Shri Narayan Tatu Rane	Ministry of Micro, Small and Medium Enterprises
Smt. Nirmala Sitharaman	1. Ministry of Finance 2. Ministry of Corporate Affairs
Shri Narendra Singh Tomar	1. Ministry of Agriculture & Farmers Welfare
Shri Sarbanada Sonowal	1. Ministry of Ports, Shipping and Waterways 2. Ministry of AYUSH
Dr. Virendra Kumar	Ministry of Social Justice and Empowerment
Dr. Subrahmanyam Jaishankar	Ministry of External Affairs
Shri Ramchandra Prasad	Ministry of Steel
Shri Arjun Munda	Ministry of Tribal Affairs

Smt. Smriti Zubin Irani	1. Ministry of Women and Child Development
Mansukh Mandaviya	1. Ministry of Health and Family Welfare 2. Ministry of Chemical Fertilizers
Shri Ashwini Vaishnav	1. Ministry of Railways 2. Ministry of Communications 3. Ministry of Electronics and Information Technology
Shri Piyush Goyal	1. Ministry of Textiles 2. Ministry of Commerce and Industry 3. Ministry of Consumer Affairs, Food and Public Distribution
Shri Dharmendra Pradhan	1. Ministry of Education 2. Ministry of Skill Development and Entrepreneurship
Shri Mukhtar Abbas Naqvi	Ministry of Minority Affairs
Shri Pralhad Joshi	1. Ministry of Parliamentary Affairs 2. Ministry of Coal 3. Ministry of Mines

Shri Jyotiraditya M. Scindia	Ministry of Civil Aviation
Shri Giriraj Singh	1. Ministry of Rural Development 2. Ministry of Panchayati Raj
Shri Gajendra Singh Shekhawat	Ministry of Jal Shakti
Shri Pashu Pati Kumar Paras	Ministry of Food Processing Industries
Shri Kiren Rijiju	Ministry of Law and Justice
Shri Raj Kumar Singh	1. Ministry of Power 2. Ministry of New and Renewable Energy
Shri Hardeep Singh Puri	1. Ministry of Petroleum and Natural Gas 2. Ministry of Housing and Urban Affairs
Shri Bhupender Yadav	1. Ministry or Environment, Forest and Climate Chane 2. Ministry of Labour and Employment
Dr. Mahendra Nath Pandey	Ministry of Heavy Industries
Shri Parshottam Rupala	Ministry of Fisheries, Animal Husbandry and Dairying

Shri G. Kishan Reddy	1. Ministry of Culture 2. Ministry of Tourism 3. Ministry of Development of North Eastern Region
Shri Anurag Singh Thakur	1. Ministry of Information and Broadcasting 2. Ministry of Youth Affairs and Sports

77. **Answer: d**

Explanation:

The correct answer is __Tripura.__

⭐ __Key Points__

- Dipa Karmakar became the first gymnast to have received the prestigious Rajiv Gandhi Khel Ratna Award.
- She is from Agartala, Tripura.
- She received honours from the President at the Rashtrapati Bhavan on August 29, 2016.
- She joined the club of 12 eminent female sports personalities who have been awarded the Rajiv Gandhi Khel Ratna Award.

⭐ __Additional Information__

- About Tripura: (as of June 2021)
- It is located in the northeastern part of the country.
- It is bordered to the north, west, and south by Bangladesh, to the east by the state of Mizoram, and to the northeast by the state of Assam .
- The capital is Agartala , near the Bangladesh border in the northwestern part of the state.
- About half of Tripura's land area is under forest cover .
- Roughly half of the state's population belongs officially to Scheduled Castes and Scheduled Tribes .

- Some prominent tribal groups include the Reang, the Chakma, the Halam (a subgroup of the Kuki), the Garo, the Lusai (Mizo), and the Marma (Mogh).

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78. **Answer: a**

Explanation:

The correct answer is <u>Andhra Pradesh.</u>

⭐ <u>Key Points</u>

- Kolleru Lake is one of the largest freshwater lakes in India located in the state of **Andhra Pradesh 15 kilometres** away from the city of Eluru.
- Kolleru is located between **Krishna and Godavari deltas.**
- Kolleru spans two districts - **Krishna and West Godavari.**

⭐ <u>Additional Information</u>

- Kolleru is located between Krishna and Godavari delta and covers an area of 308 km².
    - The lake serves as a natural flood-balancing reservoir for these two rivers.
    - The RAMSAR site of the Kolleru sanctuary is facing pollution and degradation due to large-scale shrimp farming for export.
    - The waters and surrounding aquifers of Kolleru Lake continue to be polluted by aquacultural operations, while residents continue to resist moves by the government to reduce the size of the lake.

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79. **Answer: b**

Explanation:

The correct answer is <u>Akira Yoshino.</u>

⭐ <u>Key Points</u>

- In Physics Jim Peebles, Michel Mayor, and Didier Queloz won the Nobel prizes.
- His contributions is to the understanding of the evolution of the universe and Earth's place in the cosmos.

Nobel Prize Recipients 2019

Field	Names	Work
Peace	Abiy Ahmed	For engineering the end of a two-decade conflict with neighbouring Eritrea.
Economic Sciences	Michael Kremer, Abhijeet Banerjee, and Esther Duflo	For their study on poverty.

⭐ **Additional Information**

- The Nobel Prize in Physics 2021 was awarded to 3 Scientists namely Syukuro Manabe, German Klaus Hasselmann and Giorgio Parisi.
- Journalists Maria Ressa , of the Philippines, and Dmitry Muratov, of Russia , have won the 2021 Nobel Peace Prize.
- The Nobel prize in chemistry was won by Benjamin List and David MacMillan in 2021.
- The Nobel prize in Medicine was won by David Julius and Ardem Patapoutian in 2021.

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80. **Answer: b**

Explanation:

The correct answer is **30.**

⭐ **Key Points**

- The Rajya Sabha is the upper house of the bicameral Parliament of India constituted under Article 80 of the Indian constitution.
- It is also known as the house of elders.

- The minimum age required to be a member of the Rajya Sabha is 30 years.
- Rajya Sabha is a permanent body and not subject to dissolution.

⭐ **Additional Information**

- In the Rajya Sabha in India , states are represented based on population.
- Rajya Sabha currently has a maximum membership of 245. The maximum strength of the Rajya Sabha is fixed at 250(if the question asked 'Maximum Strength', the answer would be 250).
- Out of which (245), 233 members represent the states and union territories and 12 members are nominated by the president
- In Rajya Sabha, one-third of members retire every second year.
- Maximum seats of Rajya Sabha in Uttar Pradesh (31).

81. Answer: c

Explanation:

The correct answer is **Obstetrics.**

⭐ **Key Points**

- **Obstetrics** is the field of study concentrated on pregnancy, childbirth and the postpartum period.
- Ophthalmology is a branch of medicine and surgery which deals with the diagnosis and treatment of eye disorders.
- Oncology is the branch of medicine that researches, identifies and treats cancer.
- **Orthopedics** , also called orthopedic surgery, medical specialty concerned with the preservation and restoration of function of the skeletal system and its associated structures, i.e., spinal and other bones, joints, and muscles.

82. Answer: c

Explanation:

The correct answer is <u>Vishwanath Pratap Singh.</u>

<u>List of the President of India:</u>

Name	Starting date	Closing date
1. Dr. Rajendra Prasad	January 26th, 1950	May 13th, 1962
2. Dr Sarvepalli Radhakrishnan	May 13th, 1962	May 13th, 1967
3. Dr Zakir Hussain	May 13th, 1967	May 3rd, 1969
4. Varahagiri Venkata Giri	May 3rd, 1969	July 20th, 1969
5. Mohammad Hidayatullah	July 20th, 1969	August 24th, 1969
6. Varahagiri Venkata Giri	August 24th, 1969	August 24th, 1974
7. Fakhruddin Ali Ahmed	August 24th, 1974	February 11th, 1977
8. Basappa Danappa Jatti	February 11th, 1977	July 25th, 1977
9. Neelam Sanjiva Reddy	July 25th, 1977	July 25th, 1982
10. Giani Zail Singh	**July 25th, 1982**	**July 25th, 1987**
11. Ramaswamy Venkataraman	July 25th, 1987	July 25th, 1992
12. Shankar Dayal Sharma	**July 25th, 1992**	**July 25th, 1997**
13. Kocheril Raman Narayanan	**July 25th, 1997**	**July 25th, 2002**
14. Dr. A.P.J. Abdul Kalam	July 25th, 2002	July 25th, 2007
15. Pratibha Patil	July 25th, 2007	July 25th, 2012
16. Pranab Mukherjee	July 25th, 2012	July 25th, 2017
17. Shri Ram Nath Kovind	July 25th, 2017	25 July 2022
18. Droupadi Murmu	25 July 2022	Present

- Hence **Vishwanath Pratap Singh is NOT a former President of India.**
- **Vishwanath Pratap Singh** was an Indian politician who was the 7th Prime Minister of India from 1989 to 1990.

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83. Answer: a

Explanation:

The correct answer is **1998.**

- **Amartya Sen** is a world-renowned Nobel Laureate who was awarded the Prize in Economic Sciences in **1998 "for his contributions to welfare economics".**
- Sen was best known for his work on the causes of famine, which led to the development of practical solutions for preventing or limiting the effects of real or perceived shortages of food.

⭐ **Additional Information**

- **List of Nobel Prize recipients in India:**

  1. Rabindranath Tagore, Nobel Prize in Literature (1913).
  2. C.V. Raman, Nobel Prize in Physics (1930).
  3. Har Gobind Khorana, Nobel Prize in Medicine (1968).
  4. Mother Teresa, Nobel Peace Prize (1979).
  5. Subrahmanyam Chandrasekhar, Nobel Prize in Physics (1983).
  6. 14th Dalai Lama, Nobel Prize for Peace (1989).
  7. Amartya Sen, Nobel Prize in Economic Sciences (1998).
  8. Venkatraman Ramakrishnan, Nobel Prize in Chemistry (2009).
  9. Kailash Satyarthi, Nobel Peace Prize (2014).

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84. Answer: d

Explanation:

The correct answer is **Dudhsagar.**

⭐ **Key Points**

- Dudhsagar Falls ('Sea of Milk') is a four-tiered waterfall located on the Mandovi River in the Indian state of Goa.
- Dudhsagar Falls is amongst India's tallest waterfalls with a height of 310 m (1017 feet) and an average width of 30 meters (100 feet).
- The Dudhsagar falls is located in the Bhagwan Mahaveer Sanctuary and Mollem National Park among the Western Ghats.
- The Dudhsagar falls is a punctuation mark in the journey of the Mandovi River from the Western Ghats to Panjim where it meets the Arabian sea.
- The area is surrounded by deciduous forests with rich biodiversity.
- This waterfall is also known as Tambdi Surla to some of the local people.

⭐ **Additional Information**

- List of important waterfalls:

Waterfalls	Places
Hundru	Jharkhand
Kapildhara ,Kapildhara ,Dhuandhar	Madhya Pradesh
Elephanta,Nohkalikai	Meghalaya
Jogini Waterfall, Bhagsunag Waterfall	Himachal Pradesh
Athirappilly	Kerala
Jog,Shivsamudram, Kunchikal ,Magod,Hebbe	Karnataka
Rajrappa ,Hundru	Jharkhand
Yenna	Maharashtra
Joranda, Barehipani	Odisha
Pykara,Thalaiyar, Hogenakkal	Tamil Nadu
Khangchendzonga	Sikkim
Dudhsagar	Goa

85. **Answer: a**

Explanation:

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

⭐ <u>Key Points</u>

- The earliest Chalukyas with their capital at Badami (Vatapi) in Karnataka .
- They ruled from mid-6th They declined after the death of their greatest king, PulakesinII in 642 AD .
- They were known as Badami Chalukyas .

⭐ Additional Information

- Chalukya Rulers:
- Jayasimha was the first ruler of the Chalukyas.
- Pulakesin I (Reign: 543 AD – 566 AD)
  - Founded the empire with his capital at Vatapi.
  - Performed Ashwamedha.
- Kirtivarman I (Reign: 566 AD – 597 AD)
  - Son of Pulakesin I.
  - Conquered Konkan and northern Kerala.
- Mangalesha (Reign: 597 AD – 609 AD)
  - Brother of Kirtivarman I.
  - Conquered the Kadambas and the Gangas.
  - Was killed by his nephew and son of Kirtivarman, Pulakesin II.
- Pulakesin II (609 AD – 642 AD)
  - The greatest of the Chalukya kings.
  - Extended the Chalukya rule to most parts of the Deccan.
  - He is famous for stopping Northern king Harsha in his tracks while he was trying to conquer southern parts of the country.
  - He had defeated the Pallava king Mahendravarman I but was defeated and killed by Mahendravarman's son and successor Narasimhavarman I in a series of battles he had with the Pallavas.

---

86. Answer: a

Explanation:

The correct answer is Cm.

- Cmis the chemical symbol of Curium.

- Curium is a **transuranic, radioactive chemical element** with the symbol **Cm** and atomic number **96** .
- This element of the actinide series was named after eminent scientists **Marie and Pierre Curie.**

⭐ <u>Additional Information</u>

- **Modern Periodic Table:**

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87. **Answer: a**

Explanation:

The correct answer is <u>**No poverty.**</u>

- The ' **Sustainable Development Goals** ' aim is to be relevant to all countries- poor, rich and middle-income-to promote prosperity while protecting the environment and tackling climate change.
- They have a strong focus on improving equity to meet the needs of women, children and disadvantaged populations in particular so that "no one is left behind".

- The First Sustainable Development Goal is No Poverty.

⭐ <u>Key Points</u>

- The United Nations Sustainable Development Goals are 17 goals with 169 targets that all UN Member States have agreed to work towards achieving by the year 2030.
- **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

Hence, there are a total of 17 Sustainable Goals to be achieved by the year 2030.

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88. **Answer: a**

Explanation:

The correct answer is <u>Lord Lytton.</u>

- Kaiser-I-Hind means Empress of India was the Title given to Queen Victoria in the year <u>1877</u> in Delhi Durbar by Viceroy Lord Lytton.

⭐ <u>Additional Information</u>

- Lord Lytton (1876 – 1880):
  - Vernacular Press Act, 1878.
  - Arms Act, 1878.
  - Ignored severe famine and organized durbar. Proclaimed Queen Victoria "The Empress of India".
  - Abolished tax on cotton for British traders.
  - The maximum age to take up the civil services exam was lowered from 21 to 19.
- Lord Minto (1905 – 1910):
  - Morley – Minto reforms
- Lord Ripon (1880-1884):
  - During Lord Ripon's tenure, a Local self-Government resolution was passed.
  - It was not an Act but a resolution by the government in the year 1882.
  - The Financial liberalization that started under Lord Mayo (1869-1872) was continued by Lord Ripon.
- Lord Dufferin (1884-1888):
  - He fought the Third Anglo-Burmese War(1885-86).
  - The formation of INC took place during his tenure in 1885.

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89. **Answer: b**

Explanation:

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

⭐ <u>Key Points</u>

- In 1972, the forest department realized its mistake while reviving the degraded **sal forests of the Arabari forest range** .
- Arabari forest lies in the **Midnapore district of West Bengal.**
- The earlier methods of policing and surveillance were a total failure as they often led to frequent clashes with local people.

- It also led to the alienation of people from the conservation programme.
- Then a forest officer, named A K Banerjee involved the local people in the revival of **1,272 hectares of forest.**
- In lieu of that the villagers were given employment in silviculture and harvest and were given **25% of the harvest.**
- They were also allowed to gather firewood and fodder against a nominal payment.
- Due to the active participation of the local community there was remarkable revival of the **Arabari sal forest.**

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90. Answer: c

Explanation:

The correct answer is <u>Raja Rao.</u>

⭐ <u>Key Points</u>

- Raja Rao wrote **Kanthapura and The Serpent and the Rope(1960).**
- It's a novel by Raja Rao and was published in 1938.
- It is modelled on Harikatha and old woman Achakka is the narrator.

⭐ <u>Additional Information</u>

- **Sitakant Mahapatra** is an Indian poet and literary critic in Odia as well as English.
- **Nirad Chandra Chaudhuri** CBE was an Indian writer. In 1990, Oxford University awarded Chaudhuri, by then a long-time resident of the city of Oxford, an Honorary Degree in Letters.
- The poem punishment in Kindergarten is written by Kamala Das .
  - It reminisces her hurtful childhood memories.
  - She was scolded by her teacher for standing alone during a picnic.

---

91. Answer: d

Explanation:

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

⭐ <u>Key Points</u>

- **Golkonda fort was built by the Kakatiya dynasty in the 13th century.**
- It is also known as **Shepherd's Hill" or "Golla Konda".**
- Muhammad Quli Qutab Shah established Hyderabad in 1591 to extend the capital beyond the fortified Golconda.
- Kakatiya dynasty ruled over a small region near Warangal.
- **Prataparudra** founded a sovereign kingdom in **1163 CE.**
- The most powerful rulers of the dynasty were **Ganapathi Deva and Rudramadev.**
- The dynasty worshipped the **goddess Kakati.**
- The family was called **Kakatiyas.**
- The Kakatiyas also worshipped **Svayambhuva, i.e., Siva.**

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92. **Answer: c**

Explanation:

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

⭐ <u>Key Points</u>

- There are **three** oxygen atoms in a molecule of ozone.
- **Ozone:**
  - A layer of ozone is present in the stratosphere of Earth and prevents the UV rays from reaching the Earth's surface.
  - It is an allotrope of Oxygen.
  - **Ozone, or tri-oxygen, is an inorganic molecule with the chemical formula O_3.**
  - It is a pale blue gas with a distinctively pungent smell.

- Ozone is an excellent oxidizing agent as it breaks down into oxygen gas and nascent oxygen. $\{O_3 - O_2 + [0]\}$
- It is an allotrope of oxygen that is much less stable than the diatomic allotrope O_2, breaking down in the lower atmosphere to O_2 or di-oxygen.

⭐ Additional Information

- The upper stratosphere consists of a considerable amount of **ozone** (O_3), which protects us from the harmful ultraviolet (UV) radiation coming from the sun.
- These radiations cause skin cancer (melanoma) in humans. Therefore, it is important to maintain the ozone shield.
- Ozone in the stratosphere is a product of UV radiations acting on dioxygen (O_2) molecules. The UV radiations split apart molecular oxygen into free oxygen (O) atoms.
- These oxygen atoms combine with molecular oxygen to form ozone.

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93. **Answer: d**

Explanation:

The correct answer is **Bhusawal.**

- **Bhusawal or Bhusaval** is a city and a municipal council in the Jalgaon district in the Indian state of **Maharashtra.**
- Chikmagalur, Bijapur, Chitradurga is a town of Karnataka.

⭐ Additional Information

- Some important districts:

State	Regions
Odisha	Sonai, Mayubhanj, Keonjhar
Jharkhand and Bihar	Singhbhum, Hazaribagh, Palamau ,Shahbad
Chhattisgarh and Madhya Pradesh	Raipur, Durg, Bastar, Raigarh, Bilaspur, Jabalpur, Balaghat
Andhra Pradesh	Krishna, Kurnool, Chittor, Cuddapha, Warangal, Guntur
Tamil Nadu	Salem, Tiruchirapalli
Karnataka	Ballary, Chitradurga, Chikmagalur
Maharashtra	Ratnagiri, Chanda

94. **Answer: d**

Explanation:

The correct answer is **Odissi.**

⭐ **Key Points**

- Odissi is one of the 8 classical dances of India recognized by the Sangeet Natak Academy.
- Odissi is a major ancient classical dance that originated in the Indian state of **Orissa.**
- The famous dancers of Odissi are - **Sujata Mohapatra, Kelucharan Mohapatra, Ratikant Mohapatra, Gangadhar Pradhan, etc.**
- **Kelucharan Mohapatra is the first person to receive the Padma Vibhusan from Orissa .**

⭐ Additional Information

Dances	Origin	Main reviving personnel	Famous Proponents
Kathak	Uttar Pradesh	Lady Leela Sokhey	Birju Maharaj, Lacchu Maharaj, Sitara Devi, Damyanti Joshi
Sattariya	Assam	Shankaradeva	
Mohiniattam	Kerala	V. N. Kalamandalam Menon, kalayani Amma	Sunanda Nair, kshmavathy, Madhuri Amma, Jayaprabha Menon

95. **Answer: c**

Explanation:

The correct answer is **Doubtful.**

⭐ Key Points

- Doubtful assets: An asset would be classified as doubtful if it has remained in the substandard category for a period of 12 months.
- A non-performing asset (NPA) is a loan or advance for which the principal or interest payment remained overdue for a period of 90 days.

- A loan is in arrears when principal or interest payments are late or missed. A loan is in default when the lender considers the loan agreement to be broken and the debtor is unable to meet his obligations.
- Banks are required to classify NPAs further into Substandard, Doubtful, and Loss assets, depending on the length of time overdue and probability of repayment.
- **Substandard assets:**
  - Assets which has remained NPA for a period less than or equal to 12 months.
- **Loss assets:**
  - As per RBI, "Loss asset is considered uncollectible and of such little value that its continuance as a bankable asset is not warranted, although there may be some salvage or recovery value".

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96. **Answer: a**

Explanation:

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

⭐ <u>Key Points</u>

- **Shortugai and Mundigak are the only Indus Valley Civilization sites in Afghanistan.**
- **Indus Valley Civilization was a Bronze Age civilization** spread across the whole of Pakistan and the north-western part of India.
- It was discovered by **Dayaram Sahni in 1921** with the discovery of Harappa.
- **Shortugai is located in the Takhar Province in Afghanistan.**
- The Indus Valley Civilization was spread from present-day North-East Afghanistan to Pakistan and North-West India.
- The civilization flourished in the river basins of the Ghaggar-Hakra river and the Indus.

⭐ <u>Additional Information</u>

- **Indus valley civilization** is one of the four oldest civilizations in the world. It is also known as **Harappan Civilization** and is well-known for its organized planning based on the grid system.
- **John Marshall was the first researcher to use the term, 'Indus Valley Civilization'.**
- Indus Valley Civilization spread from the year **2500 – to 1750 BC** according to radio-carbon dating.
- The most distinctive feature of the Harappan Civilization was its urbanization.
- Moreover, sheep and goats, dogs, humped cattle buffalo, and elephants were domesticated in the Indus Valley Civilization.
- **The capital cities are Mohenjodaro and Harappa** .
- The port cities are **Sutkagendor, Balakot, Lothal, Allahdino, and Kuntasi.**
- The Indus valley people were well-acquainted with the use of both **cotton and wool.**

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97. **Answer: d**

Explanation:

The correct answer is <u>2010.</u>

⭐ <u>Key Points</u>

- India hosted the Commonwealth Games in the year **2010 in Delhi.**
- Indian athletes won **38 gold, 27 silver, and 36 bronze medals during the Commonwealth Games 2010** .
- This was the first time India has hosted the Games and only the second time the event has been held in Asia (Kuala Lumpur in 1998 was the first).
- The Games saw the participation of **71 Commonwealth Games Associations** .

⭐ <u>Additional Information</u>

- **The 2022 Commonwealth Games will be held in Birmingham, England** .
- It is officially known as the **XXII Commonwealth Games and is commonly known as Birmingham 2022.**
- The Commonwealth Games is an international multi-sport event involving athletes from the Commonwealth of Nations.

- The event was first held in **Hamilton, in the province of Ontario in Canada** from **16-23 August 1930.**
- **The exception of 1942 and 1946** , has taken place every four years since then.

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98. **Answer: b**

Explanation:

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

⭐ <u>**Key Points**</u>

- **Abhanga is a form of devotional poetry sung in praise of the Hindu god Vitthal, also known as Vithoba.**
- The word abhang comes from a for non and bhang for ending or interrupting, in other words, a flawless, continuous process, in this case referring to a poem.
- Marathi bhajans start with the naman (invocation of God), followed by the Roopancha Abhang (Portraying the physical beauty of god by personifying in the human form), and towards the end bhajans giving spiritual and ethical messages are sung.
- Abhanga bhajan/poetry sung in the praise of the Hindu god Vitthala. Bhimsen Joshi, Suresh Wadkar, Ranjani, Gayatri, Aruna Sairam, and Jitendra Abhisheki are some famous musicians for Abhangas.
- Abhanga has become integral in Bhajan concerts across South India.

⭐ <u>**Additional Information**</u>

- Some famous musicians for **Abhangs are Bhimsen Joshi, Sudhir Phadke, Suresh Wadkar, Ranjani, Gayatri, Aruna Sairam, and Jitendra Abhisheki.**
- It is a form of music performed by both **classical and non-classical musicians.**
- **Tukaram** was a seventeenth-century poet who lived in the town of Dehu, which is located near Pune.
- He was a popular poet and a leading figure in the Varkari Movement of the time, which sought to put the emphasis back on devotion and love towards God, in contrast to blind obedience to rituals and arcane religious practices.
- It is said that over **5000 Abhangas were written by Sant Tukaram.**

- Many of them were devoted to the God Vitthal or Vithoba, but mostly criticized social injustices of the time.

99. Answer: a

Explanation:

The correct answer is <u>Satyendra Nath Bose.</u>

⭐ <u>Key Points</u>

- **Satyendra Nath Bose was awarded the Padma Vibhushan** award C. Rajagopalachari, Sarvepalli Radhakrishnan and C. V. Raman were awarded the Bharat Ratna award.
- Satyanedranath Bose along with Meghnad Saha graduated from **Presidency College Calcutta.**
- Rabindranath Tagore dedicated his book on science, **"Visva-Parichay"**, to Satyendra Nath Bose in 1937.
- Satyanedranath Bose was honoured with the title Padma Vibhushan in **1954.**
- Bose-Einstein condensate (BEC) is called the fifth state of matter named after him.
- It is formed when a gas of bosons having low densities is cooled to temperatures close to absolute zero.

⭐ <u>Additional Information</u>

- Padma Vibhushan is the second-highest civilian award in India which is for those who are doing outstanding service without distinction of race, occupation and position.
- Bharat Ratna is the highest civilian award in India which is for those who are doing outstanding service without distinction of race, occupation and position.

100. Answer: c

Explanation:

The correct answer is <u>20 lakh.</u>

⭐ <u>Key Points</u>

- As per the Consumer Protection Act, 1986 a complaint can be filed in the District Consumer Disputes Redressal Forum if the value of the claim is up to **Rs. 20 lakh** .
- **The Consumer Protection Act, 1986:**
  - An important landmark in the history of consumer protection legislation in India is the consumer protection Act, of 1986, which provides for a system for the protection of consumer rights and the redressal of consumer disputes.
  - The Consumer Protection Act, 2019 received the assent of the President on 9th August 2019, and subsequently got notified on 20.07.2020. The old Act namely Consumer Protection Act, 1986 will be replaced by a new Act namely Consumer Protection Act,2019.

⭐ <u>Additional Information</u>

- **Section 21 of the Consumer Protection Act 1986** provides that the NCDRC can entertain consumer complaints that are valued over Rs. 1 Crore. As per the 2019 Act that replaced the 1986 Act, the NCDRC will entertain complaints valued above **Rs. 10 Crore.**
- The Commission has appellate as well as revisional jurisdictions from the orders of the State Consumer Disputes Redressal Commissions and the District Fora, as the case may be.
- The Act also provides that any person who is aggrieved by an order of the NCDRC may appeal against the order in the Supreme Court of the country within a period of 30 days.
- The State commissions will entertain cases between **Rs.1 Crore and Rs. 10 Crore** .
- The District fora will look into cases up to **Rs.1 Crore.**
- Another change made in the 2019 Act is that the complainant can make the complaint in the place where he/she works or resides rather than where the

opposite party resides or conducts business, thereby, easing the burden on consumers.