



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



UP TET



IBPS RRB



IBPS CLERK



IES



UPSC CAPF



SSC Stenogr..



RRB NTPC



SSC GD



RBI GRADE B



RBI Assistant



DSSSB

SSC CGL 2018 Tier-I Previous Year Paper (11-Jun-2019) (Shift 1)

Total Time: 1 Hour

Total Marks: 200

Instructions

Sl No.	Section Name	No. of Question	Maximum Marks
1	General Intelligence and Reasoning	25	50
2	General Awareness	25	50
3	Quantitative Aptitude	25	50
4	English Comprehension	25	50

- 1.) A total of 60 minutes is allotted for the examination.
- 2.) The server will set your clock for you. In the top right corner of your screen, a countdown timer will display the remaining time for you to complete the exam. Once the timer reaches zero, the examination will end automatically. The paper need not be submitted when your timer reaches zero.
- 3.) There will, however, be sectional timing for this exam. You will have to complete each section within the specified time limit. Before moving on to the next section, you must complete the current one within the time limits.

General Intelligence and Reasoning

1. Three of the following four number-pairs are alike in a certain way and one is different. Pick the odd one out. (+2, -0.5)

- a. 26 - 50
- b. 17 - 37
- c. 65 - 101
- d. 49 - 82

2. Two statements are given, followed by two conclusions numbered I and II. Assuming the statements to be true, even if they seem to be at variance with the commonly known facts, decide which of the conclusions logically follow(s) from the statements. (+2, -0.5)

Statements:

All teachers are painters.

Some painters are rich.

Conclusions:

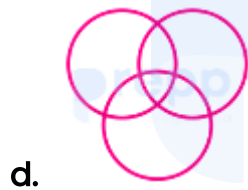
I. All painters are teachers.

II. Some rich are not painters.

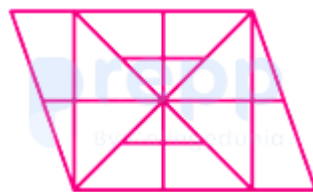
- a. Either conclusion I or II follows
- b. Neither conclusion I nor II follows
- c. Only conclusion II follows
- d. Only conclusion I follows

3. Choose the Venn diagram from the given options which best represents the relationship amongst the following classes: (+2, -0.5)

Wheat, Mustard, Cabbage



4. How many triangles are there in the following figure? (+2, -0.5)



- a. 22
- b. 32
- c. 30
- d. 16

5. In a code language, NEEDLE is written as MFDEKF. How will HAMMER be written in the same language? (+2, -0.5)

- a. IBLNDS
- b. GALNDS
- c. GBLNFT
- d. GBLNDS

6. Find the missing number from the below options. (+2, -0.5)

4	3	19
6	4	40
9	9	?

- a. 80
- b. 100
- c. 90
- d. 72

7. Select the option that is related to the third number in the same way as the second number is related to the first number. (+2, -0.5)

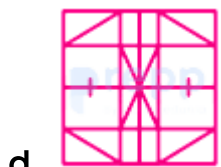
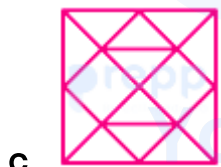
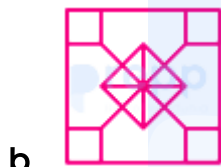
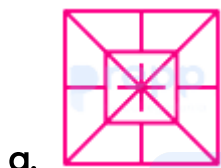
2139 : 3246 :: 4262 : _____?

- a. 2471
- b. 1461

- c. 2371
- d. 2483

8. Select the figure in which the given figure is embedded.

(+2, -0.5)



9. Three of the following four words are alike in a certain way and one is different. Pick the odd word out.

(+2, -0.5)

- a. Sodium

- b.** Thorium
 - c.** Radium
 - d.** Uranium
-

10. Priyank is Akshay's brother. Sonia is Saksham's sister. Akshay is Sonia's son. **(+2, -0.5)**
How is Priyank related to Sonia?

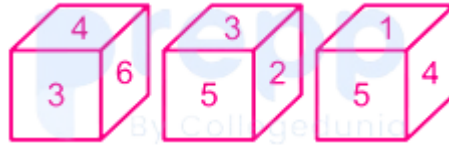
- a.** Son
 - b.** Father
 - c.** Brother
 - d.** Nephew
-

11. Arrange the following words in a logical and meaningful order. **(+2, -0.5)**

- 1. Write
- 2. Publish
- 3. Author
- 4. Reader
- 5. Sale

- a.** 4, 3, 1, 2, 5
- b.** 3, 1, 2, 5, 4
- c.** 3, 2, 1, 5, 4
- d.** 1, 3, 2, 5, 4

12. Three different positions of a dice are shown below. Which number appears on the face opposite the number 6? (+2, -0.5)



- a. 4
- b. 5
- c. 2
- d. 1

13. Select the correct mirror image of the given figure when the mirror is placed to the right of the figure. (+2, -0.5)



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

14. At a party, the number of girls is half the number of boys. After an hour, five boys leave the party and three girls join the party. If the number of boys (+2, -0.5)

and girls are equal, then find how many people were present at the party an hour before?

- a. 8
- b. 22
- c. 16
- d. 24

15. Find the missing number from the below options.

(+2, -0.5)

17	22	37
23	28	43
16	?	36

- a. 32
- b. 21
- c. 12
- d. 37

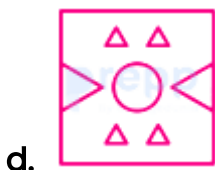
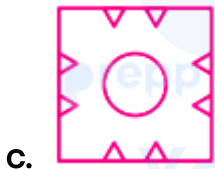
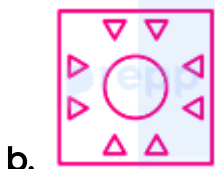
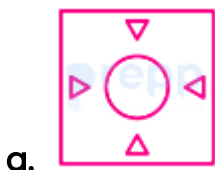
16. Three of the following four letter-clusters are alike in a certain way and one is different. Pick the odd one out.

(+2, -0.5)

- a. FGE
- b. NOR
- c. YZX

d. KLJ

17. A square paper is folded and cut as shown below. How will it appear when unfolded? (+2, -0.5)



18. Select the word pair in which the two words are related in the same way as the two words in the following word-pair. (+2, -0.5)

Brass : Copper

a. Solder : Tin

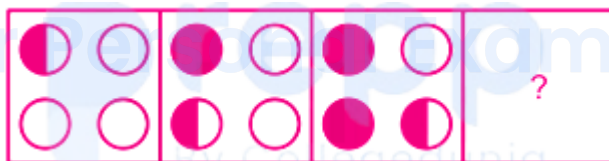
- b. Nickle : Iron
- c. Bronze : Gold
- d. Chromium : Silver

19. Which two signs should be interchanged in the following equation to make it correct? (+2, -0.5)

$$24 \div 8 - 5 \times 5 + 3 = 13$$

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

20. Select the figure that will come next in the following figure series. (+2, -0.5)



a.

b.



21. If AU = 21 and EGG = 245, then how will you code BAKE? (+2, -0.5)

- a. 19
- b. 155
- c. 110
- d. 75

22. Select the terms that will replace the “?” in the following series. (+2, -0.5)

Z, X, V, ?, R, P, ?

- a. S, O
- b. T, O
- c. S, N
- d. T, N

23. Select the term that will come next in the following series. (+2, -0.5)

OBE, PDH, QFK, RHN, ?

- a. SJP
 - b. RJQ
 - c. SJQ
 - d. SKQ
-

24. Select the term that will come next in the following series. (+2, -0.5)

57, 62, 31, 36, 18, ?

- a. 34
 - b. 19
 - c. 23
 - d. 36
-

25. 'Cheerful' is related to 'Sad' in the same way as 'Generous' is related to (+2, -0.5)

-----.

- a. Gloomy
- b. Kind
- c. Intelligent
- d. Selfish

General Awareness

26. Identify the foreigner who has been conferred the second highest civilian award in India, Padma Vibhushan for 'exceptional and distinguished service' in 2019. (+2, -0.5)
- a. John Chambers
 - b. Kader Khan
 - c. Pravin Gordhan
 - d. Ismail Omar Guelleh
-
27. Who was the Indian Army Chief at the time of Bangladesh Liberation War? (+2, -0.5)
- a. Roy Bucher
 - b. K M Cariappa
 - c. Sam Manekshaw
 - d. Rob Lockhart
-
28. The summer solstice 2019 in the Northern Hemisphere will occur on ----- (+2, -0.5)
- a. 24th June
 - b. 21st June
 - c. 20th June
 - d. 26th June

29. Who among the following wrote the book 'A History of the Sikhs'? (+2, -0.5)

- a. Gurbachan Singh Talib
 - b. Amrita Pritam
 - c. Bhai Vir Singh
 - d. Khushwant Singh
-

30. Jorwe culture was a Chalcolithic archaeological site located in the present day Indian state of _____. (+2, -0.5)

- a. Assam
 - b. Maharashtra
 - c. Bihar
 - d. Gujarat
-

31. Fertile riverine alluvial soil is best suited for producing _____. (+2, -0.5)

- a. Corn
 - b. cotton
 - c. rice
 - d. tea
-

32. Who among the following was named as the Chief Executive Officer of International Cricket Council (ICC) in January 2019? (+2, -0.5)

- a. Manu Sawhney
 - b. N G Khaitan
 - c. Saurav Ganguly
 - d. Anurag Thakur
-

33. The energy derived from the heat of Earth is called _____. (+2, -0.5)

- a. Solar Energy
 - b. Biogas
 - c. Tidal Energy
 - d. Geothermal Energy
-

34. Which of the following creatures is oviparous? (+2, -0.5)

- a. Frog
 - b. Mouse
 - c. Squirrel
 - d. Rabbit
-

35. Which of the following acids is present in ant bites? (+2, -0.5)

- a. Formic acid
- b. Malic acid

- c. Nitric acid
 - d. Perchloric acid
-

36. Which of the following stars is nearest to the sun? (+2, -0.5)

- a. Betelgeuse
 - b. Sirius
 - c. Deneb
 - d. Proxima Centauri
-

37. In which year was the East India Company incorporated for the exploitation of trade with East and Southeast Asia and India? (+2, -0.5)

- a. 1612
 - b. 1600
 - c. 1605
 - d. 1596
-

38. Which article of the Constitution of India talks about the provisions for impeachment of the President of India? (+2, -0.5)

- a. Article 51
- b. Article 61
- c. Article 63

d. Article 54

39. The demand for a commodity or service which is a consequence of the demand for something else is called _____. (+2, -0.5)

- a. Direct Demand
 - b. Derived Demand
 - c. Composite Demand
 - d. Income Demand
-

40. 'Marfati' songs are traditional folk songs of _____. (+2, -0.5)

- a. Nepal
 - b. Bangladesh
 - c. Afghanistan
 - d. Pakistan
-

41. Vijay Hazare was a famous Indian player associated with the sport of _____. (+2, -0.5)

- a. Rifle Shooting
 - b. Boxing
 - c. Football
 - d. Cricket
-

42. Which economist gave the theory of Opportunity Cost? (+2, -0.5)

- a. Milton Friedman
 - b. Adam Smith
 - c. John Keynes
 - d. Gottfried Haberler
-

43. Which scientist discovered the 'Penicillin'? (+2, -0.5)

- a. Alexander Fleming
 - b. Robert Koch
 - c. Louis Pasteur
 - d. Ernst Chain
-

44. In India, 24th January is observed as which one of the following days? (+2, -0.5)

- a. National Farmer's Day
 - b. National Day of Elderly
 - c. National Girl Child Day
 - d. National Agricultural Day
-

45. Name the national bird of Bhutan. (+2, -0.5)

- a. Parrot

- b.** Raven
 - c.** Magei
 - d.** Peacock
-

46. The Sepoy Mutiny in India started from _____. (+2, -0.5)

- a.** Champaran
 - b.** Rajkot
 - c.** Meerut
 - d.** Bareilly
-

47. Which of the following is the smallest bird in the world? (+2, -0.5)

- a.** Robin
 - b.** Diamond Firetail
 - c.** Finch
 - d.** Bee Hummingbird
-

48. The term 'cherry picking' is used in which sport? (+2, -0.5)

- a.** Basketball
- b.** Swimming
- c.** Cricket

d. Table Tennis

49. What is the term of the elected representatives of a Gram Panchayat? (+2, -0.5)

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

50. Which of the following authors received the Jnanpith Award in 2018? (+2, -0.5)

- a. Vikram Seth
- b. Kiran Desai
- c. Arundhati Roy
- d. Amitav Ghosh

Your Personal Exams Guide

Quantitative Aptitude

51. Find the value of $2.8 + (0.52 \div 0.13 \times 2) - 6 \times 3 \div 8 + 2$ (+2, -0.5)

- a. 8.45
- b. 4.55
- c. 10.55
- d. 6.45

52. **Direction :** The following table indicates the number of students studying in three disciplines in five colleges : (+2, -0.5)

Disciplines	Colleges				
	A	B	C	D	E
Science	300	350	275	400	275
Commerce	250	400	325	275	250
Economics	400	450	250	300	500

What percentage of students in college B is studying in the science stream. (correct to one decimal place)?

- a. 29.2%

b. 29.6%

c. 29.8%

d. 29.4%

53. In a circle with centre O. AB is the diameter and CD is a chord such that ABCD is a trapezium. If $\angle BAC = 25^\circ$, then $\angle CAD$ is equal to: (+2, -0.5)

a. 40°

b. 65°

c. 25°

d. 45°

54. If $\tan 4\theta = \cot (2\theta + 30^\circ)$, then θ is equal to: (+2, -0.5)

a. 15°

b. 10°

c. 20°

d. 25°

55. If $\sqrt{x} + \frac{1}{\sqrt{x}} = \sqrt{6}$, then $x^2 + \frac{1}{x^2}$ is equal to: (+2, -0.5)

a. 16

b. 62

c. 36

d. 14

56. A is 40% more efficient than B and C is 20% less efficient than B. Working together, they can finish a task in 15 days. In how many days, will B alone complete 75% of the task? (+2, -0.5)

a. 32

b. 48

c. 36

d. 44

57. An article is sold for Rs. 657.90 after successive discounts of 15% and 10%. What is the marked price of the article? (+2, -0.5)

a. Rs. 920

b. Rs. 880

c. Rs. 900

d. Rs. 860

58. **Direction :** The following table indicates the number of students studying in three disciplines in five colleges :

Disciplines	Colleges				
	A	B	C	D	E
Science	300	350	275	400	275
Commerce	250	400	325	275	250
Economics	400	450	250	300	500

If a pie-chart is drawn representing the number of students in all five colleges, what is the central angle (correct to the nearest whole number) of the sector representing the students of college B?

- a. 82°
- b. 86°
- c. 84°
- d. 80°

59. The difference between the compound interest and simple interest on Rs. X at 8.5% per annum for 2 year is Rs. 28. 90. The value of x is (+2, -0.5)

- a. 4000
- b. 3800
- c. 3500

d. 4500

60. If $a + b = 5$ and $ab = 3$, then $(a^3 + b^3)$ is equal to: (+2, -0.5)

a. 70

b. 65

c. 75

d. 80

61. A train without stoppage travels with an average speed of 65 km/h and with stoppage, it travels with an average speed of 52 km/h. For how many minutes does the train stop on an average per hour? (+2, -0.5)

a. 12

b. 14

c. 15

d. 13

62. The average marks of 45 students was found to be 66. If the marks of two students were incorrectly entered as 28 and 64 instead of 82 and 46 respectively then what is the correct average? (+2, -0.5)

a. 67.2

b. 66.6

c. 66.4

d. 66.8

63. The radii of two circular faces of the frustum of a cone of height 21 cm are 3 cm and 2 cm respectively. What is the volume of the frustum of the cone in cm^3 ($\pi = 22/7$)? (+2, -0.5)

a. 418

b. 286

c. 154

d. 345

64. If $a : b = 5 : 3$, then $(8a - 5b) : (8a + 5b)$ is equal to: (+2, -0.5)

a. 5 : 11

b. 2 : 5

c. 3 : 11

d. 3 : 13

65. The value of $\sec^2 28^\circ - \cot^2 62^\circ + \sin^2 60^\circ + \operatorname{cosec}^2 30^\circ$ is equal to: (+2, -0.5)

a. 19/4

b. 3

c. 7/2

d. 23/4

66. If $\cot \theta = 3/4$, then $\sin \theta + \cos \theta - \tan \theta$ is equal to: (+2, -0.5)

- a. $2/15$
- b. $1/20$
- c. $-1/20$
- d. $1/15$

67. The price of sugar is increased by 22%. A person wants to increase his expenditure by 12% only. By what percent should he decrease his consumption, nearest to one decimal place? (+2, -0.5)

- a. 7.8%
- b. 10%
- c. 8.6%
- d. 8.2%

68. If $a + b + c = 8$ and $ab + bc + ca = 12$, then $a^3 + b^3 + c^3 - 3abc$ is equal to: (+2, -0.5)

- a. 144
- b. 400
- c. 224
- d. 192

69. What is the least value of x such that $517x324$ is divisible by 12? (+2, -0.5)

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

70. $\Delta ABC \sim \Delta PQR$ and $PQ = 6$ cm $QR = 8$ cm and $PR = 10$ cm. If $ar(\Delta ABC) : ar(\Delta PQR) = 1 : 4$, then AB is equal to: (+2, -0.5)

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

71. In ΔABC , AD is a median and P is a point on AD such that $AP : PD$ is $3 : 4$, then $ar(\Delta APB) : ar(\Delta ABC)$ is equal to: (+2, -0.5)

- a. $3 : 4$
- b. $3 : 14$
- c. $3 : 7$
- d. $2 : 7$

72. **Direction** : The following table indicates the number of students studying in three disciplines in five colleges :

Disciplines	Colleges				
	A	B	C	D	E
Science	300	350	275	400	275
Commerce	250	400	325	275	250
Economics	400	450	250	300	500

What is the ratio of the total number of students studying in the science stream to that of studying in commerce stream in all five colleges taken together?

- a. 16 : 15
- b. 19 : 15
- c. 16 : 19
- d. 14 : 15

73. **Direction :** The following table indicates the number of students studying in three disciplines in five colleges : (+2, -0.5)

Disciplines	Colleges				
	A	B	C	D	E
Science	300	350	275	400	275
Commerce	250	400	325	275	250
Economics	400	450	250	300	500

What percentage of total students are studying in the commerce stream in all five colleges together?

- a. 33%
- b. 32%
- c. 28%
- d. 30%

74. Two articles are sold for Rs. 10,005 each. On one, the seller gains 15% and on the other, he loses 13%. What is his overall gain or loss percent. Correct to two decimal places? (+2, -0.5)

- a. 0.94% gain
- b. 1.42% gain
- c. 1.42% loss

d. 0.94% loss

75. Chords AB and CD of a circle, when produced, meet at a point P outside the circle, If AB = 6 cm, CD = 3 cm and PD = 5 cm, then PB is equal to: (+2, -0.5)

a. 6 cm

b. 4 cm

c. 5 cm

d. 6.25 cm

Prepp

Your Personal Exams Guide

English Comprehension

76. In the sentence identify the segment which contains the grammatical error. (+2, -0.5)

There isn't many rice left in the house so we must replenish our stock soon.

- a. so we must replenish
- b. left in the house
- c. our stock soon
- d. There isn't many rice

-
77. Select the most appropriate synonym of the given word. (+2, -0.5)

PERPLEX

- a. surprise
- b. deceive
- c. complex
- d. bewilder

-
78. Given below are four jumbled sentences. Select the option that gives their correct order. (+2, -0.5)

A. The brain is active too during sleep, sending messages for the heart to beat regularly.

B. However, the body utilizes the sleeping time effectively.

C. We spend about one-third of our time sleeping.

D. It produces energy and releases hormones for repair and growth during the night.

- a. BADC
- b. ABDC
- c. CABD
- d. CBDA

79. 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. (+2, -0.5)

Leaving his car with the valet, he (1)_____ the hotel and joined the large crowd milling (2)_____. He found a badge waiting for him (3)_____ the receptionist's table and took his (4)_____ in the rear of the hall. When the place was (5)_____ the moderator welcomed the crowd.

Select the most appropriate option to fill in blank **No.1**.

- a. entered
- b. accessed
- c. invaded
- d. admitted

80. 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. (+2, -0.5)

Leaving his car with the valet, he (1)_____ the hotel and joined the large crowd milling (2)_____. He found a badge waiting for him (3)_____ the receptionist's table and took his (4)_____ in the rear of the hall. When the place was (5)_____ the moderator welcomed the crowd.

Select the most appropriate option to fill in blank **No.2** .

- a. aside
- b. out
- c. into
- d. about

-
81. Select the most appropriate option to substitute the underlined segment in the given sentence. If no substitution is required, select No improvement. (+2, -0.5)

Knowing the particular things that motivate each person help you add power to their motivation.

- a. help you adding power
- b. No improvement
- c. helps you add power
- d. help you to add power

-
82. 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. (+2, -0.5)

Leaving his car with the valet, he (1)_____ the hotel and joined the large crowd milling (2)_____. He found a badge waiting for him (3)_____ the receptionist's table and took his (4)_____ in the rear of the hall. When the place was (5)_____ the moderator welcomed the crowd.

Select the most appropriate option to fill in blank **No.5**

- a. filled
- b. stuffed
- c. empty
- d. completed

83. Select the most appropriate option to substitute the underlined segment in the given sentence. If no substitution is required, select 'No improvement'. (+2, -0.5)

Your coming home to dinner on times should be a rule rather the exception .

- a. should be a rule rather being the exception
- b. shall be a rule rather than a exception
- c. should be the rule rather than the exception
- d. No improvement

84. Select the most appropriate option to fill in the blank. (+2, -0.5)

The committee reached _____ decision regarding the appointment of the chairman.

- a. an exemplary

- b. a compatible
- c. a unanimous
- d. an agreeable

85. Select the most appropriate meaning of the underlined idiom in the given sentence. (+2, -0.5)

True friends stay by our side through thick and thin.

- a. under all circumstances
- b. in different weathers
- c. in difficult times
- d. in happy moments

86. Select the most appropriate synonym of the given word. (+2, -0.5)

DEFER

- a. despair
- b. delay
- c. dictate
- d. dread

87. Select the most appropriate meaning of the underlined idiom in the given sentence. (+2, -0.5)

Due to increased number of lay offs in the industry, the sword of Damocles is always hanging over the employees

- a. strict rules and regulations
 - b. threat of physical harm
 - c. a constant threat
 - d. an ill omen of death
-

88. In the sentence identify the segment which contains the grammatical error. (+2, -0.5)

Ten kilometres are a long distance to cover on foot for a child.

- a. Ten kilometres are
 - b. a long distance
 - c. for a child
 - d. to cover on foot
-

89. Select the most appropriate antonym of the given word. (+2, -0.5)

MEAGRE

- a. Inadequate
 - b. Premium
 - c. Plentiful
 - d. Scanty
-

90. 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. (+2, -0.5)

Leaving his car with the valet, he (1)_____ the hotel and joined the large crowd milling (2)_____. He found a badge waiting for him (3)_____ the receptionist's table and took his (4)_____ in the rear of the hall. When the place was (5)_____ the moderator welcomed the crowd.

Select the most appropriate option to fill in blank **No.3**.

- a. by
- b. at
- c. over
- d. in

91. Given below are four jumbled sentences. Select the option that gives their correct order. (+2, -0.5)

- A. But they faced grave danger if they tried to criticize these decisions.
- B. The nationalists now began to openly criticize the policies of the British.
- C. The freedom movement changed this situation.
- D. Under colonial rule, the people had lived in fear of the British government and did not agree with many of the decisions that they took

- a. BADC
- b. DBAC
- c. DACB

d. CBAD

92. Select the correct passive form of the given sentence. (+2, -0.5)

The sailors had never encountered such a rough sea.

- a. Such a rough sea was never encountered by the sailors
- b. Such a rough sea had never been encountered by the sailors.
- c. Such a rough sea is never encountered by the sailors.
- d. Such a rough sea has never been encountered by the sailors

93. Select the correctly spelt word. (+2, -0.5)

- a. privilege
- b. previledge
- c. previllage
- d. privailege

94. Select the correct active form of the given sentence. (+2, -0.5)

We will all be greatly benefitted by this scheme

- a. This scheme has greatly benefitted us all
- b. This scheme will greatly benefit all of us
- c. This scheme is going to greatly benefit us all.
- d. This scheme would greatly benefit we all.

95. 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. (+2, -0.5)

Leaving his car with the valet, he (1)_____ the hotel and joined the large crowd milling (2)_____. He found a badge waiting for him (3)_____ the receptionist's table and took his (4)_____ in the rear of the hall. When the place was (5)_____ the moderator welcomed the crowd.

Select the most appropriate option to fill in blank **No.4**.

- a. stand
- b. seat
- c. lounge
- d. couch

96. Select the most appropriate antonym of the given word. (+2, -0.5)

ARROGANCE

- a. Conceit
- b. Superiority
- c. Vanity
- d. Humility

97. Select the word which means the same as the group of words given. (+2, -0.5)

One who is a great lover of books

- a. hemophile
- b. bibliophile
- c. xenophile
- d. pedophile

98. Select the word which means the same as the group of words given. (+2, -0.5)

A fictitious name used by an author

- a. alibi
- b. homonym
- c. anonymous
- d. pseudonym

99. Select the correctly spelt word. (+2, -0.5)

- a. tuetion
- b. tution
- c. tuition
- d. tuttion

100. Select the most appropriate option to fill in the blank. (+2, -0.5)

She got a lucrative job of a translator because she was _____ in French

- a. deficient
- b. sufficient
- c. proficient
- d. efficient

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Answers

1. Answer: d

Explanation:

Pattern followed is:

$$26 - 50 = (5^2 + 1) - (7^2 + 1)$$

$$17 - 37 = (4^2 + 1) - (6^2 + 1)$$

$$65 - 101 = (8^2 + 1) - (10^2 + 1)$$

$$49 - 82 = (7^2) - (9^2 + 1)$$

Hence 49 - 82 is the odd one.

2. Answer: b

Explanation:



Conclusions:

I. All painters are teachers → False (It is possible but not definite)

II. Some rich are not painters → False (It is possible but not definite)

Hence, neither conclusion I nor II follows.

★ Additional Information

Statement	Conclusion		
	Definite (100% true)	Can't Say	Incorrect (100% false)
All A are B 	Some A are B Some B are A	Some B are not A All B are A	Some A are not B No A is B No B is A
Some A are B 	Some B are A	Some A are not B All B are A Some B are not A All A are B	No A is B No B is A
No A is B 	No B is A Some A are not B Some B are not A		Some A are B Some B are A All A are B All B are A
Some A are not B 		Some B are not A Some A are B Some B are A All B are A No A is B No B is A	All A are B

3. Answer: b

Explanation:

Wheat is grain.

Mustard is a cash crop.

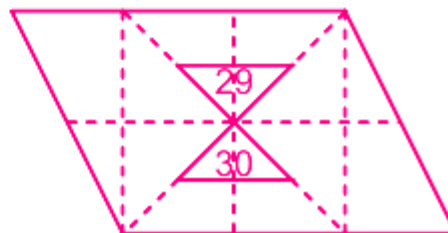
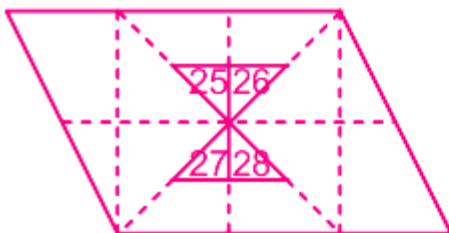
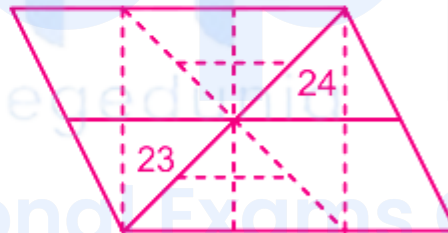
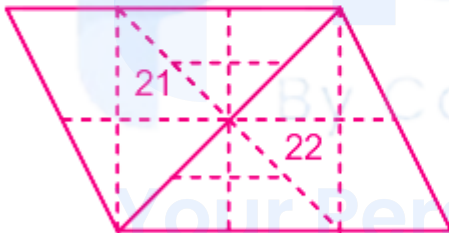
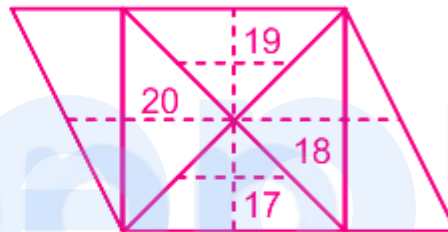
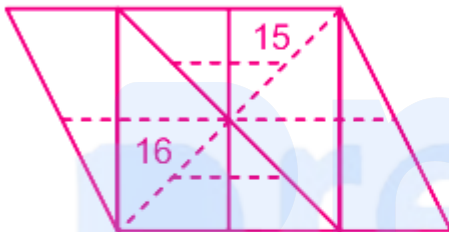
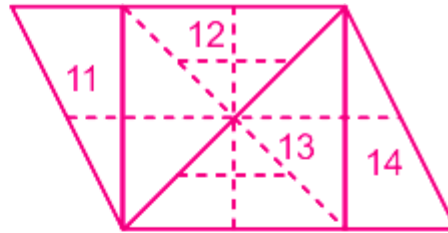
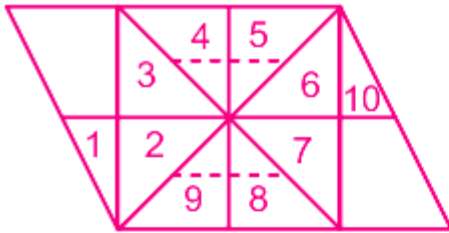
Cabbage is a vegetable.



These three are different from each other.

4. Answer: c

Explanation:



Hence, the total number of triangles is 30.

5. Answer: d

Explanation:

Pattern followed is:

N	E	E	D	L	E
-1	+1	-1	+1	-1	+1
M	F	D	E	K	F

Similarly

H	A	M	M	E	R
-1	+1	-1	+1	-1	+1
G	B	L	N	D	S

Hence, GBLNDS is the correct answer.

6. Answer: c

Explanation:

Pattern followed is:

In 1st row $4 \times 4 + 3 = 16 + 3 = 19$

In 2nd row $6 \times 6 + 4 = 36 + 4 = 40$

Similarly in 3rd row $9 \times 9 + 9 = 81 + 9 = 90$

Hence 90 is the answer.

7. Answer: a

Explanation:

Pattern followed is:

$$2 + 1 + 3 + 9 = 3 + 2 + 4 + 6 = 15$$

Similarly

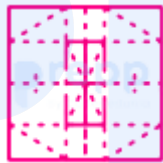
$$4 + 2 + 6 + 2 = 14$$

$$2 + 4 + 7 + 1 = 14$$

Hence 2471 is answer.

8. Answer: d

Explanation:



Hence, the correct answer is option 4).

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9. Answer: a

Explanation:

Sodium is an alkali metal.

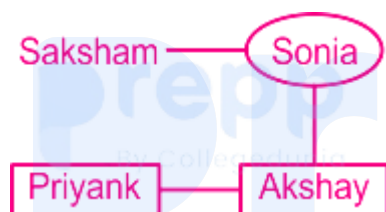
All except Sodium are radioactive substances.

Hence, Sodium is the odd word.

10. Answer: a

Explanation:

Symbol in Diagram	Meaning
○	Female
□	Male
==	Married Couple
—	Siblings
	Difference of A Generation



Hence, Priyank is the son of Sonia.

11. Answer: b

Explanation:

Correct sequence is:

Author – Write – Publish – Sale – Reader

Hence, the correct order is 3, 1, 2, 5, 4.

12. Answer: b

Explanation:

From second dice figure we see that 2 and 3 are adjacent to 5.

From third dice figure we see that 1 and 4 are adjacent to 5.

Hence only 6 is remaining and it will be opposite of 5.

13. Answer: c

Explanation:



Hence, the correct mirror image is option 3).

14. Answer: d

Explanation:

Let the number of girls at the starting of the party be 'x'

Then, number of boys = $2 \times x = 2x$

Given, five boys leave the party and three girls join the party

Number of boys now = $2x - 5$

Number of girls = $x + 3$

According to the question,

$$(2x - 5) : (x + 3) = 1 : 1$$

On solving,

$$x = 8$$

number of girls = 8

number of boys = $8 \times 2 = 16$

$\therefore$ Required number of people = $8 + 16 = 24$

Hence, the correct answer is 24.

15. Answer: b

Explanation:

Pattern followed is :

In 1st row 1st term + 2nd term – unit place of second term = $17 + 22 - 2 = 37$

In 2nd row 1st term + 2nd term – unit place of second term = $23 + 28 - 8 = 43$

Similarly

In 3rd row 1st term + 2nd term – unit place of second term = $16 + 21 - 1 = 36$

Alternate solution:

1st Term + 5 = 2nd Term, 2nd Term + 15 = 3rd Term

$17 + 5 = 22$, $22 + 15 = 37$

$23 + 5 = 28$, $28 + 15 = 43$

Similarly,

$16 + 5 = 21$, $21 + 15 = 36$

Hence, the correct answer is 21.

16. Answer: b

Explanation:

$$F + 1 = G - 2 = E$$

$$N + 1 = O - 2 \neq R$$

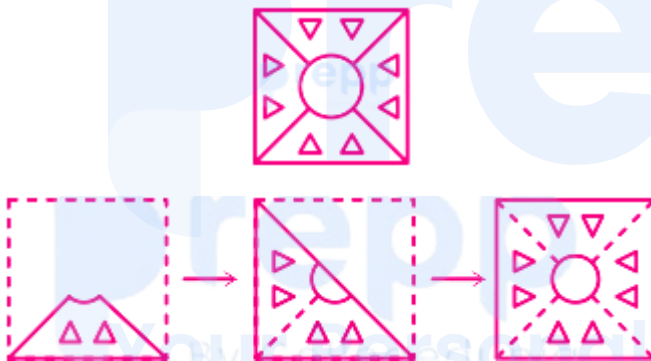
$$Y + 1 = Z - 2 = X$$

$$K + 1 = L - 2 = J$$

Hence, NOR is the odd among them.

17. Answer: b

Explanation:



Hence, the correct answer is option 2).

18. Answer: a

Explanation:

Pattern followed is:

Brass is a alloy of Copper and Zinc.

Similarly,

Solder is an alloy of Tin and lead.

Hence, Solder : Tin is the correct answer.

19. Answer: c

Explanation:

Interchanging $\div$ and $\times$

$$24 \times 8 - 5 \div 5 + 3 = 192 - 1 + 3$$

$$194 \neq 13$$

Interchanging $\div$ and $-$

$$24 - 8 \div 5 \times 5 + 3 = 24 - \frac{8 \times 5}{5} + 3$$

$$24 - 8 + 3 \neq 13$$

Interchanging $\times$ and $+$

$$24 \div 8 - 5 + 5 \times 3 = 3 - 5 + 15$$

$$-2 + 15 = 13$$

Interchanging $\div$ and $+$

$$24 + 8 - 5 \times 5 \div 3 = 32 - \frac{5 \times 5}{3}$$

$$32 - \frac{25}{3} \neq 13$$

Hence by interchanging $\times$ and $+$ we get the correct equation.

20. Answer: b

Explanation:

Pattern followed is:

Circle which is half shaded is move by one place in anticlockwise direction.

And one fully Shaded circle is added in each step.



Hence, option 2) will come at place of question mark.

21. Answer: c

Explanation:

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

Pattern followed is:

$$A = 1, U = 21. 21 \times 1 = 21$$

$$EGG = 5 \times 7 \times 7 = 245$$

Similarly

$$BAKE = 2 \times 1 \times 11 \times 5 = 110$$

Hence 110 is the correct answer.

22. Answer: d

Explanation:

Pattern followed is:

$$Z - 2 = X, X - 2 = V, V - 2 = T, T - 2 = R, R - 2 = P, P - 2 = N$$

Hence T, N is the answer.

23. Answer: c

Explanation:

Pattern followed is:



Hence, SJQ is the correct answer.

24. Answer: c

Explanation:

Pattern followed is:

$$57 + 5 = 62$$

$$62 \times \frac{1}{2} = 31$$

$$31 + 5 = 36$$

$$36 \times \frac{1}{2} = 18$$

$$18 + 5 = 23$$

Hence, the answer is 23.

25. Answer: d**Explanation:**

Cheerful and Sad are antonyms.

Similarly,

Generous and Selfish are antonyms.

26. Answer: d**Explanation:**

- Ismail Omar Guelleh has been conferred the second highest civilian award in India, Padma Vibhushan for 'exceptional and distinguished service' in 2019.
- The other recipients include Teejan Bai, Anilkumar Manibhai Naik, and Balwant Moreshwar Purandare.
- A total of 112 awardees were selected for Padma Vibhushan, Padma Bhushan and Padma Shri awards.

27. Answer: c

Explanation:

- Sam Manekshaw was the Indian Army Chief at the time of Bangladesh Liberation War.
- He was also the Chief of the Army Staff during Indo-Pakistani War 1971.
- He began his service in World War II in the British Army.

28. Answer: b

Explanation:

- The summer solstice 2019 in the Northern Hemisphere will occur on 21 June 2019.
- It is the longest day of the year.
- The winter solstice in the Southern Hemisphere will occur on 22 December 2019.

29. Answer: d

Explanation:

- Khushwant Singh is the author of the book 'A History of the Sikhs'.

Gurbachan Singh Talib	An Advanced book of religious studies
Amrita Pritam	Pinjar
Bhai Vir Singh	Satwant Kaur
Khushwant Singh	A History of the Sikhs

30. Answer: b

Explanation:

- Jorwe culture was a Chalcolithic archaeological site located in the present day Indian state of Maharashtra.
- It further spread to north in the Malwa region (Madhya Pradesh).
- Its early phase dates back to 1400-1000 BCE, while its later one from 1000-700 BCE.

31. Answer: c

Explanation:

- Fertile riverine alluvial soil is best suited for producing sugarcane, rice, and plantain.
- Alluvial soil is rich in potassium.
- Red soil is ideal for crops like corn, red gram, Bengal gram, green gram, groundnut, and castor seed
- Laterite soil is ideal for growing tea.

32. Answer: a

Explanation:

- Manu Sawhney was named as the Chief Executive Officer of International Cricket Council (ICC) in January 2019.
- He was working alongside Dave Richardson, who stepped down in July 2019 after the World Cup.
- Manu Sawhney is the former ESPN Star Sports Managing Director.

33. Answer: d

Explanation:

- The energy derived from the heat of Earth is called geothermal energy.
 - It comes from the heat within the earth.
 - Solar energy is derived from the sun.
 - Biogas is derived from the organic matter.
 - Tidal energy is obtained from tides and is a form of hydropower.
-

34. Answer: a

Explanation:

- Oviparous animals are those which lay eggs.
 - Examples of Oviparous animals include birds, reptiles, amphibians, fish, etc.
 - Viviparous animals give birth to completely developed living young animals.
examples- cattle, human, etc.
-

35. Answer: a

Explanation:

- Formic acid is present in ant bites.
 - The sting of an ant contains simple carboxylic acid, which is also known as formic acid.
 - The same acid is present in the sting of wasps, bees, etc.
 - The chemical formula of formic acid is H-COOH .
-

36. Answer: d

Explanation:

- Proxima Centauri is nearest to the sun.
- It is 4.22 light years away from the Earth.
- The other 2 main stars are Alpha Centauri A and Alpha Centauri B, which are 4.3 light years away from the earth.

Betelgeuse	9th brightest star in the night sky
Sirius	brightest star in the night sky
Deneb	1st magnitude star in Cygnus constellation

37. Answer: b

Explanation:

- The East India Company incorporated for the exploitation of trade with East and Southeast Asia and India in the year 1600.
- It started as a monopolistic trading body but became involved in politics from early 18th century.

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38. Answer: b

Explanation:

Article 51	to safeguard public property and to adjure violence
<u>Article 61</u>	<u>Procedure for impeachment of the President</u>
Article 63	There shall be a Vice President of India
Article 54	Election of President

- Article 61 states “the Procedure for the impeachment of the president”.

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PART V

THE UNION

Chapter I - The Executive

The President of India (Articles 52-62)

Article	What does it say
Article 52	States about The president of India in the constitution.
Article 53	The executive power of the union.
Article 54	Election of the president.
Article 55	Manner of the election of the president.
Article 56	Term of office of president.
Article 57	Eligibility of re-election.
Article 58	Qualification for the election of the president.
Article 59	Conditions of the president's office.
Article 60	Oaths or affirmation by the president.
<u>Article 61</u>	<u>States the procedure for the impeachment of the president.</u>

Article 62	Time of holding an election to fill the vacancy of the office of president and the term of office of the person elected to fill a casual vacancy.
---------------	---

39. Answer: b

Explanation:

- The demand for a commodity or service which is a consequence of the demand for something else is called derived demand.
- Eg. When we purchase a laptop, we demand a mouse as well which is a consequence of the demand for something else
- **Direct demand** is for goods meant for final consumption.
- When goods have more than one use, the demand created is known as composite demand.

40. Answer: b

Explanation:

- Marfati songs are traditional folk songs of Bangladesh.
- Purweli songs are folk songs of Nepal.

41. Answer: d

Explanation:

- Vijay Hazare was a famous Indian player associated with the sport of **Cricket**.
- A trophy called Vijay Hazare Trophy was named after him and started in 2002-03.
- Under his captaincy, Indian won the 1st ever test cricket against England in 1951-52.

42. Answer: d

Explanation:

- Gottfried Haberler gave the theory of Opportunity Cost.
- Opportunity cost is the value of the most valuable choice from those which were not taken.
- It expresses the basic relation between choice and scarcity.
- Gottfried Haberler abandoned the labor theory of value for this concept.

43. Answer: a

Explanation:

Invention	Scientist	Nationality
<u>Penicillin</u>	<u>Alexander Fleming</u>	British
Anthrax	Robert Koch	German
Pasteurization	Louis Pasteur	French
Worked on Penicillin	Ernst Chain	German

44. Answer: c

Explanation:

- National Girl Child Day is observed every year on 24th January in India.

National Farmer's Day	23 December
National Day of Elderly	1 October
National Girl Child Day	24 January
National Agricultural Day	14 March (2019)

45. Answer: b

Explanation:

Parrot	Cayman islands
<u>Raven</u>	<u>Bhutan</u>
Magpei	Bangladesh
Peacock	Indian

46. Answer: c

Explanation:

- The Sepoy Mutiny or Indian Mutiny in India started from Meerut by Indian troops.
- It was an unsuccessful rebellion during 1857-59 against the British.
- It spread to Lucknow, Delhi, Kanpur, and Agra.
- It is also called as the First War of Independence.

47. Answer: d

Explanation:

- Bee Hummingbird is the smallest bird in the world.
 - It measures 57 mm in total length.
 - It is slightly larger than a bee and is endemic to Cuba.
 - Its breeding season is between March and June and it lays 2 eggs at a time.
-

48. Answer: a

Explanation:

- The term 'cherry picking' is used in basketball.
 - It refers to the play where a cherry picker (player) remains near the opponents' goal and does not play defense with the rest of the team.
 - It is also used in other sports such as water polo, ice hockey, etc.
-

49. Answer: c

Explanation:

- The term of the elected representatives of a Gram Panchayat is 5 years.
 - The Gram Panchayat is divided into wards which is represented by a Commissioner or a ward member, who is also known as Panch.
 - A Panch is directly elected by the villagers.
-

50. Answer: d

Explanation:

- Amitav Ghosh received the 54th Jnanpith Award in 2018 for his outstanding contribution towards literature.
- He is known for his novels such as The Hungry Tide, Shadow Lines, etc.
- Jnanpith Awards are presented annually Bharatiya Jnanpith.

- The award carries a cash prize of Rs.11 lakh.

51. Answer: c

Explanation:

Follow BODMAS rule to solve this question, as per the order given below :

Step-1: Parts of an equation enclosed in 'Brackets' must be solved first, and in the bracket,

Step-2: Any mathematical 'Of' or 'Exponent' must be solved next,

Step-3: Next, the parts of the equation that contain 'Division' and 'Multiplication' are calculated,

Step-4: Last but not least, the parts of the equation that contain 'Addition' and 'Subtraction' should be calculated.

$$\Rightarrow 2.8 + (0.52 \div 0.13 \times 2) - 6 \times 3 \div 8 + 2$$

$$\Rightarrow 2.8 + (4 \times 2) - 6 \times 3/8 + 2$$

$$\Rightarrow 2.8 + 8 - 9/4 + 2$$

$$\Rightarrow 12.8 - 2.25$$

$$\Rightarrow 10.55$$

52. Answer: a

Explanation:

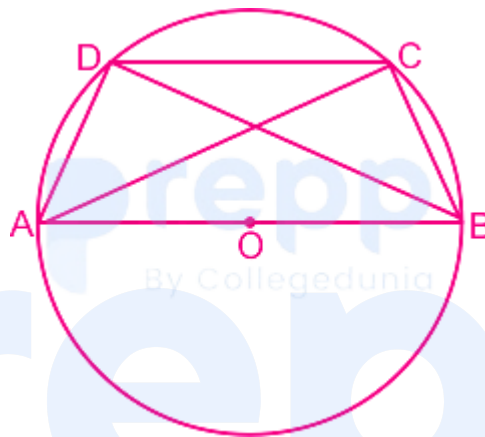
Total number of students in college B = $350 + 400 + 450 = 1200$

Number of students of college B who studying in science = 350

$\therefore$ Required percentage = $[350/1200] \times 100 = 29.16\% \approx 29.2\%$

53. Answer: a

Explanation:



Given, $\angle BAC = 25^\circ$

$\Rightarrow \angle ACB = 90^\circ$ [Angle in a semicircle is 90°]

In $\triangle ACB$

$\Rightarrow \angle ACB + \angle CBA + \angle BAC = 180^\circ$

$\Rightarrow \angle CBA = 180^\circ - 90^\circ - 25^\circ = 65^\circ$

$\Rightarrow \angle DCA = \angle CAB = 25^\circ$ [Alternate interior angle]

$\Rightarrow \angle DCA = \angle ABD = 25^\circ$ and $\angle CAD = \angle DBC$

$\therefore$ Two inscribed angles forming the same arc or forming two equal arcs are equal.

$\Rightarrow \angle CBA = \angle DBC + \angle ABD$

$\Rightarrow 65^\circ = \angle DBC + 25^\circ$

$\Rightarrow \angle DBC = 65^\circ - 25^\circ = 40^\circ$

$$\Rightarrow \angle CAD = \angle DBC = 40^\circ$$

54. Answer: b

Explanation:

$$\Rightarrow \tan 4\theta = \cot (2\theta + 30^\circ),$$

$$\Rightarrow \tan 4\theta = \tan [90^\circ - (2\theta + 30^\circ)] [\cot(90^\circ - \theta) = \tan \theta]$$

$$\Rightarrow 4\theta = 90^\circ - 2\theta - 30^\circ$$

$$\Rightarrow \theta = 10^\circ$$

55. Answer: d

Explanation:

$$\text{As we know, } (x + 1/x)^2 = x^2 + 1/x^2 + 2$$

$$\text{Given, } \sqrt{x} + 1/\sqrt{x} = \sqrt{6}$$

$$\Rightarrow (\sqrt{x} + 1/\sqrt{x})^2 = (\sqrt{x})^2 + (1/\sqrt{x})^2 + 2$$

$$\Rightarrow \sqrt{6}^2 = x + 1/x + 2$$

$$\Rightarrow x + 1/x = 6 - 2 = 4$$

$$\Rightarrow (x + 1/x)^2 = x^2 + (1/x)^2 + 2$$

$$\Rightarrow 4^2 = x^2 + 1/x^2 + 2$$

$$\Rightarrow x^2 + 1/x^2 = 16 - 2 = 14$$

56. Answer: c

Explanation:

Let the efficiency of B be 100.

Efficiency of A will be $= 100 \times [140/100] = 140$

Efficiency of C will be $= 100 \times [80/100] = 80$

Efficiency ratio of A, B and C $= 140 : 100 : 80 = 7 : 5 : 4$

Total work $= (7 + 5 + 4) \times 15 = 240$

75% of total work $= 240 \times [75/100] = 180$

75% of total work B will complete in $= 180/5 = 36$ days

57. Answer: d**Explanation:**

Let MP of the article Rs. x.

According to the question

$$\Rightarrow x \times [85/100] \times [90/100] = 657.90$$

$$\Rightarrow x = 860$$

MP of the article = Rs. 860

58. Answer: b**Explanation:**

Total number of students in college A $= 300 + 250 + 400 = 950$

Total number of students in college B $= 350 + 400 + 450 = 1200$

Total number of students in college C = $275 + 325 + 250 = 850$

Total number of students in college D = $400 + 275 + 300 = 975$

Total number of students in college E = $275 + 250 + 500 = 1025$

Total number of students in all five college = $950 + 1200 + 850 + 975 + 1025 = 5000$

5000 students represents = 360°

1200 students will represent = $[360^\circ/5000] \times 1200 = 86.4^\circ \approx 86^\circ$

59. Answer: a

Explanation:

As we know,

Difference between the compound interest and simple interest for 2 years formula,

Given, $r = 8.5\%$, time = 2 years and $P = x$

$$\Rightarrow Pr^2/(100)^2 = \text{difference}$$

$$\Rightarrow (P \times 8.5 \times 8.5)/100 \times 100 = 28.90$$

$$\Rightarrow P = 4000$$

60. Answer: d

Explanation:

As we know, $(a + b)^3 = a^3 + b^3 + 3ab(a + b)$

Given, $a + b = 5$ and $ab = 3$

$$\Rightarrow 5^3 = (a^3 + b^3) + 3 \times 3 \times 5$$

$$\Rightarrow (a^3 + b^3) = 125 - 45 = 80$$

61. Answer: a

Explanation:

Without stoppage average speed = 65 km/h

With stoppages average speed = 52 km/h

As we know,

Time of rest per hour equal to the difference in average speed divided by the speed without stoppage.

$$\text{Required time} = [(65 - 52)/65] \times 60 = 12$$

So, A train stops on an average 12 minute/hr

62. Answer: d

Explanation:

Average marks of 45 students = 66

Sum of marks of 45 students = $66 \times 45 = 2970$

According to the question

Correct sum of marks of 45 students = $2970 - 28 - 64 + 82 + 46 = 3006$

Correct average marks of 50 students = $3006/45 = 66.8$

Short trick :

$$\Rightarrow 66 + [(82 + 46 - 28 - 64)/45]$$

$$\Rightarrow 66 + [36/45]$$

$$\Rightarrow 66 + 0.8$$

$$\Rightarrow 66.8$$

63. Answer: a

Explanation:

Radii of two circular faces of the frustum of a cone are 3 cm and 2 cm.

Height of the circular frustum of cone $H = 21$ cm

As we know,

Volume of the frustum of cone $= \frac{1}{3} \times \pi [R^2 + r^2 + Rr] H$

$$\Rightarrow \frac{1}{3} \times \frac{22}{7} \times [3^2 + 2^2 + 3 \times 2] \times 21$$

$$\Rightarrow 22 \times [9 + 4 + 6]$$

$$\Rightarrow 22 \times 19$$

$$\Rightarrow 418$$

64. Answer: a

Explanation:

$$\Rightarrow a : b = 5 : 3$$

Suppose $a = 5$ and $b = 3$

$$\Rightarrow (8a - 5b) : (8a + 5b)$$

$$\Rightarrow (8 \times 5 - 5 \times 3) : (8 \times 5 + 5 \times 3)$$

$$\Rightarrow (40 - 15) : (40 + 15)$$

$$\Rightarrow 25 : 55 = 5 : 11$$

65. Answer: d

Explanation:

$$\Rightarrow \sec^2 28^\circ - \cot^2(90^\circ - 28^\circ) + (\sqrt{3}/2)^2 + 2^2$$

$$\Rightarrow \sec^2 28^\circ - \tan^2 28^\circ + 3/4 + 4 [\cot(90^\circ - \theta) = \tan \theta \text{ and } \sec^2 \theta - \tan^2 \theta = 1]$$

$$\Rightarrow 1 + 3/4 + 4$$

$$\Rightarrow 23/4$$

66. Answer: d

Explanation:

Given:

$$\cot \theta = 3/4$$

Concept Used:

Pythagoras theorem, $(\text{Hypotenuse})^2 = (\text{Base})^2 + (\text{Perpendicular})^2$

$\Rightarrow \cot \theta = \text{Base/perpendicular}$, $\sin \theta = \text{Perpendicular/Hypotenuse}$, $\cos \theta = \text{Base/Hypotenuse}$, $\tan \theta = \text{Perpendicular/Base}$

According to the question,

$$\Rightarrow \cot \theta = \text{Base/perpendicular} = 3/4$$

Using Pythagoras theorem

$$\Rightarrow (\text{Hypotenuse})^2 = (\text{Base})^2 + (\text{Perpendicular})^2$$

$$\Rightarrow (\text{Hypotenuse})^2 = 3^2 + 4^2 = 9 + 16 = 25$$

$$\Rightarrow \text{Hypotenuse} = \sqrt{25} = 5$$

Now,

$$\Rightarrow \sin \theta + \cos \theta - \tan \theta$$

$$\Rightarrow P/H + B/H - P/B \quad (\text{perpendicular} = P, \text{base} = B, \text{hypotenuse} = H)$$

$$\Rightarrow 4/5 + 3/5 - 4/3 \quad [\sin \theta = P/H, \cos \theta = B/H \text{ and } \tan \theta = P/B]$$

$$\Rightarrow 7/5 - 4/3$$

$$\Rightarrow (21 - 20)/15 = 1/15$$

67. Answer: d

Explanation:

Let the initial price of sugar be $100x$.

Price of sugar after increased = $100x \times [122/100] = 122x$

Person wants his expenditure increase by 12% only, so his expenditure should be = $100x \times [112/100] = 112x$

Required percentage = $[(122 - 112x)/122] \times 100 = 8.19\% \approx 8.2\%$

68. Answer: c

Explanation:

Given, $a + b + c = 8$ and $ab + bc + ca = 12$

As we know, $a^3 + b^3 + c^3 - 3abc = (a + b + c) [(a + b + c)^2 - 3(ab + bc + ca)]$

$$\Rightarrow 8 [8^2 - 3 \times 12]$$

$$\Rightarrow 8 (64 - 36)$$

$$\Rightarrow 8 \times 28$$

$$\Rightarrow 224$$

69. Answer: a

Explanation:

Number 517x324 is divisible by 12, so we can say number also divisible by both 4 and 3

Divisibility law of 4 : A number divisible by 4 if its last two digit is divisible by 4

Divisibility law of 3 : A number is divisible by 3 if sum of its digit is divisible by 3.

$$\Rightarrow 517x324 \text{ is divisible by 3 if } x = 2$$

Or

$$\Rightarrow 5 + 1 + 7 + x + 3 + 2 + 4$$

$$\Rightarrow 22 + x$$

$$\text{Put } x = 2$$

$$\Rightarrow 22 + 2$$

$$\Rightarrow 24 \text{ (which is divisible by 3)}$$

70. Answer: d

Explanation:

⇒ Given $\triangle ABC \sim \triangle PQR$

⇒ $PQ = 6 \text{ cm}$, $QR = 8 \text{ cm}$, $PR = 10 \text{ cm}$ and $\text{ar}(\triangle ABC)/\text{ar}(\triangle PQR) = 1/4$

As we know,

⇒ $(AB/PQ)^2 = \text{ar}(\triangle ABC)/\text{ar}(\triangle PQR)$

⇒ $AB^2/6^2 = 1/4$

⇒ $AB^2 = 6^2 \times 1/4$

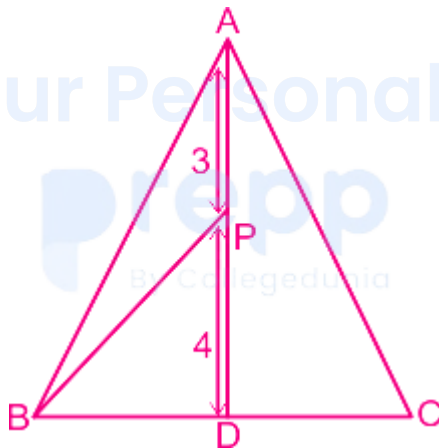
⇒ $AB = 6 \times 1/2 = 3 \text{ cm}$



Ratio of the areas of triangle = ratio of the square of their corresponding sides

71. Answer: b

Explanation:



AD is median, so AD divides triangle in two equal part

$\text{ar} \triangle ADB = \text{ar} \triangle ADC$

In $\triangle ABD$

$$\Rightarrow \text{ar } \triangle BDP / \text{ar } \triangle APB = DP / AP$$

$$\Rightarrow \text{ar } \triangle BDP / \text{ar } \triangle APB = 4 / 3$$

Let the area of $\triangle BDP$ be 4 unit

So, area of $\triangle APB$ will be = 3 unit

So, area of $\triangle BAD = \text{ar } \triangle BDP + \text{ar } \triangle APB = 4 + 3 = 7$ unit

Area of $\triangle ABC = 2 \times \text{ar } \triangle BAD = 2 \times 7 = 14$ unit

$$\therefore \text{ar } \triangle APB : \text{ar } \triangle ABC = 3 : 14$$

72. Answer: a

Explanation:

Total number of students studying in the science stream = $300 + 350 + 275 + 400 + 275 = 1600$

Total number of students studying in the commerce stream = $250 + 400 + 325 + 275 + 250 = 1500$

$\therefore$ Required ratio = $1600 : 1500 = 16 : 15$

73. Answer: d

Explanation:

Total number of students in college A = $300 + 250 + 400 = 950$

Total number of students in college B = $350 + 400 + 450 = 1200$

Total number of students in college C = $275 + 325 + 250 = 850$

Total number of students in college D = $400 + 275 + 300 = 975$

Total number of students in college E = $275 + 250 + 500 = 1025$

Total number of students in all five college = $950 + 1200 + 850 + 975 + 1025 = 5000$

Total number of students studying in the commerce stream = $250 + 400 + 325 + 275 + 250 = 1500$

$\therefore$ Required percentage = $[1500/5000] \times 100 = 30\%$

74. Answer: d

Explanation:

SP of each article = Rs. 10,005

CP of first article = $10,005 \times [100/115] = 8,700$

CP of second article = $10,005 \times [100/87] = 11,500$

Total SP of both article = $10,005 \times 2 = 20,010$

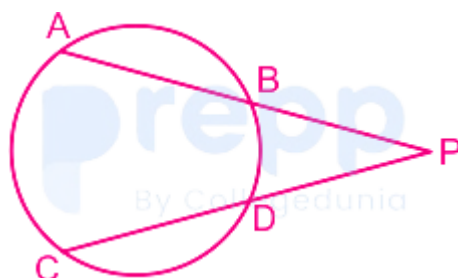
Total CP of both article = $8,700 + 11,500 = 20,200$

Total loss = $20,200 - 20,010 = 190$

Loss percentage = $[190/20,200] \times 100 = 0.94\%$

75. Answer: b

Explanation:



Given, $AB = 6 \text{ cm}$, $CD = 3 \text{ cm}$, $PD = 5 \text{ cm}$

Let the length of PB be x , $PA = (x + 6)$ and $PC = 5 + 3 = 8 \text{ cm}$

As we know,

$$PB \times PA = PD \times PC$$

$$\Rightarrow x \times (x + 6) = 5 \times 8$$

$$\Rightarrow x^2 + 6x - 40 = 0$$

$$\Rightarrow x^2 + 10x - 4x - 40 = 0$$

$$\Rightarrow x(x + 10) - 4(x + 10) = 0$$

$$\Rightarrow (x + 10)(x - 4) = 0$$

$$\Rightarrow (x + 10) = 0$$

$$\Rightarrow x = -10 \text{ [not possible]}$$

$$\Rightarrow (x - 4) = 0$$

$$\Rightarrow x = 4$$

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76. Answer: d

Explanation:

The word **rice** is an **uncountable** noun. Therefore, it is incorrect to quantify it with the adjective **many**.

It is instead correct to refer to a quantity of rice with adjectives used for non-countable nouns, such as **much** or **a lot of**.

In this sentence, it would be correct to say-- there isn't **much** rice left....

Therefore, the error is in **option 4**.

77. Answer: d

Explanation:

The correct answer is bewilder

★ Key Points

- The word **perplex** is a verb that means to confuse, worry or baffle someone. (भ्रमित)
- **Bewilder** means to confuse someone (किसी को भ्रमित करना)
- Out of the given options, the word closest in meaning to 'perplex' is **bewilder**.

★ Additional Information

- **Surprise:** an unexpected event (एक अप्रत्याशित घटना)
- **Deceive:** to persuade someone that something false is the truth, or to keep the truth hidden from someone for your own advantage (किसी को यह समझाने के लिए कि कुछ झूठ सच है, या अपने फायदे के लिए किसी से सच छुपा कर रखना)
- **Complex:** involving a lot of different but related parts (बहुत से अलग लेकिन संबंधित भागों को शामिल करना)

★ Confusion Points

- Option 3 **complex** is not a verb and hence, cannot be a synonym for **perplex**.

78. Answer: d

Explanation:

The correct answer is **CBDA**.

★ Key Points

- The first sentence in the passage should stand independently in meaning. Since this is only true for **sentence C**, it must be the first sentence.
- Therefore, the answer is either **option 3 or option 4**.
- According to **option 3**, the first sentence should be followed by **sentence A**. However, this doesn't make sense since **sentence A** mentions the word **too** meaning it refers to something similar to the previous sentence, which is not the case.
- Therefore, the correct option is **option 4**.
- **To double-check:** According to **option 4**, **sentence B** follows directly from **sentence C**. This makes sense since **sentence B** uses the word **however** to connect and continue the topic of sleeping time from **sentence C**.

The correct arrangement: *We spend about one-third of our time sleeping. However, the body utilizes the sleeping time effectively. It produces energy and releases hormones for repair and growth during the night. The brain is active too during sleep, sending messages for the heart to beat regularly.*

79. Answer: a

Explanation:

The word **enter** means to simply go or come into a place. In this sentence, the place in question is **the hotel** and therefore the word **enter** fits perfectly in the context.

Therefore option 1 is correct.

Here are the meanings of the other options:

- **Accessed** – entered a place by some means.
- **Invaded** – entered by force.
- **Admitted** – allowed someone to enter.

80. Answer: d

Explanation:

The correct option here is 'about'. This is because **mill about** is an idiom which means to move or walk around with no particular purpose.

Since this is clearly the idiom being used in the passage, option 4 is correct.

NOTE: **Mill about** can also be used as a **mill around**.

Example sentence: In the square, people were *milling around* in the sunshine.

option 4 is the correct answer

81. Answer: c

Explanation:

The correct answer is helps you add power

★ Key Points

- We use **each** to refer to the individual things or persons in a group of two or more.

Examples:

- *We spent five days on the coast and each day we swam in the ocean.* (determiner)
- *There were four rooms, each with wonderful views of the garden.* (pronoun)

- 'Each' should be followed by a **singular verb**.
- 'helps' should be used here.

The correct answer is: *Knowing the particular things that motivate each person helps you add power to their motivation.*

82. Answer: a

Explanation:

To solve this question, we must look at the context of the sentence. The moderator can only welcome a **crowd** if a place is filled with people, therefore **option 3 is incorrect**.

Also, neither **option 2 nor option 4** makes any sense in the context of the sentence.

Therefore, **option 1 is correct**.

83. Answer: c

Explanation:

The correct form of the idiom being used here is **the rule rather than the exception**.

The idiom makes use of the definite article **the** before the words **rule** and **exception**. Therefore, **options 1, 2 and 4** are incorrect.

NOTE : the word **rather** is used to denote the degree of something. Example: The weather today is rather chilly.

In the case of this sentence, it is more appropriate to use **rather than** which means **instead of**.

Option 3 is the answer

84. Answer: c

Explanation:

The correct answer is **a unanimous**

★ Key Points

- Here are the meanings of the given words:
 - Exemplary – very good, serving as an example
 - Compatible – able to exist together
 - Unanimous – fully in agreement
 - Agreeable – quite enjoyable and pleasurable
- Given the context of the sentence, we can see that the word **unanimous** fits the blank perfectly. A **unanimous decision** would mean a decision that was made only after everyone completely agreed to it.
- While all of the other options have positive connotations, none of them fit the context of the sentence in the same way.
- Therefore, **option 3** is correct.
- Thus, the complete sentence is: *The committee reached **a unanimous** decision regarding the appointment of the chairman.*

★ Additional Information

- The words, starting with vowels but their pronunciation starts as a consonant, are preceded by article 'a' not 'an'.

85. Answer: a

Explanation:

The idiom **through thick and thin** is used to mean **through good times and bad times**. Therefore, **option 1 is correct**.

While **option 3** might also seem like the correct answer, note that it only mentions **difficult times** and therefore does not capture the whole meaning of the idiom.

86. Answer: b

Explanation:

The correct answer is delay.

★ Key Points

- The word **defer** means **to delay or postpone an event for a later time** .
Example: *They deferred the decision until February.*
- Therefore, **option 2** is correct.
- **Here are the meanings of the other options:**
 - **Despair** – to lose hope.
Example: *A voice full of self-hatred and despair.*
 - **Dictate** – say or read aloud.
Example: *I have four letters to dictate.*
 - **Dread** – to feel worried or anxious about something.
Example: *The thought of returning to London filled her with dread.*

87. Answer: c

Explanation:

The idiom sword of Damocles means a constant threat. If one has a **sword of Damocles** hanging over one's head, one is in a situation in which something very bad could happen at any time.

For example: *With the threat of nuclear war, many feel that the **sword of Damocles** hangs over the world like never before.*

We can see that **option 3** conveys this meaning perfectly. While **options 2 and 4** might also seem correct, they get very specific in their description of threat (**physical harm and ill omen of death**).

Therefore, **option 3** is correct.

88. Answer: a

Explanation:

The correct answer is Ten kilometres are

★ Key Points

- 'Ten kilometres is' should be there in place of 'Ten kilometres are'
- If **plural noun** is used **after cardinal adjectives** (one, two, three, four etc.) and if plural noun denotes a certain **amount, weight, height** or **period**, singular verb will be used.
- **Examples:**
 - *Hundred rupees **is** in my pocket.*
 - *Ten miles **is** a long distance to cover on foot.*

Thus, the correct sentence is: *Ten kilometres **is** a long distance to cover on foot for a child.*

89. Answer: c

Explanation:

The correct answer is Plentiful

★ Key Points

- The word **meagre** means **lacking in quantity**.
- The word **plentiful** which means **existing in large quantities**
- Thus, 'Plentiful' is the antonym of 'meagre'

★ Additional Information

- Meaning of other words given in the options are:
 - **Inadequate:** lacking the quality or quantity required; insufficient for a purpose
 - **Premium:** an amount to be paid for a contract of insurance
 - **Scanty:** small or insufficient in quantity or amount

90. Answer: b

Explanation:

The preposition **at** is used to define **the specific location of someone or something** . In the given sentence, it helps specify the exact location of the **badge** with respect to the receptionist's desk.

This is not the case when we use the prepositions

by (which means next to something),

over (which means above something) or

in (which means inside something).

Hence, **option 2 is correct.**

91. Answer: c

Explanation:

The first sentence of a passage should stand independently in meaning. This is only true for **sentence D** , therefore it must be the first sentence.

Therefore, the correct answer is either **option 2 or option 3.**

According to **option 2, sentence B follows sentence D.** This doesn't make sense since **B** mentions the word **now** to indicate a change in the situation, which doesn't follow directly from **D.**

Therefore, **option 3 is the correct option.**

92. Answer: b

Explanation:

The correct answer is Such a rough sea had never been encountered by the sailors.

★ Key Points

- In **Active Voice**, a sentence emphasizes the subject, performing an action.
- In **Passive Voice**, a sentence emphasizes the action or the object of the sentence.
- The **given sentence** is in the **active voice** and 'The sailors' is the **subject** and 'such a rough sea' is the **object**.
- When we convert this sentence into **passive voice**, the subject 'The sailors' of the active voice **becomes** the **object**, the **object** 'such a rough sea' **becomes the subject**.
- The passive format "**had + been + V3 (encountered)**" should be used.
- This is the active and passive voice **rule** for the **past perfect tense**.

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



Additional Information

- Verbs of passive format have a different set of tenses (*V3 – Past participle or Third form of the Verb) as given below in the table:

TENSE	ACTIVE	PASSIVE	PASSIVE CONVERSION
Present Simple	He plays football	am/is/are + V3	Football is played by him
Present Continuous	He is playing football	am/is/are + being + V3	Football is being played by him
Present Perfect	He has played football	Has/have + been+ V3	Football has been played by him
Present Perfect Continuous	He has been playing football	Not used and unusual.	Not used and unusual
Past Simple	He played football	Was/were + V3	Football was played by him
Past Continuous	He was playing football	Was/were + being + V3	Football was being played by him
Past Perfect	He had played football	Had + been + V3	Football had been played by him
Past Perfect Continuous	He had been playing football	Not used and unusual	Not used and unusual
Future Simple	He will play football	Will + be + V3	Football will be played by him
Future Continuous	He will be playing football	Not used and unusual	Not used and unusual
Future Perfect	He will have played football	Will have been + V3	Football will have been played by him
Future Perfect Continuous	He will have been playing football	Not used and unusual	Not used and unusual

93. Answer: a

Explanation:

The correct spelling is: privilege.

★ Key Points

- **Privilege** means a special right, advantage, or immunity granted or available only to a particular person or group.
For eg: *Education is a right, not a privilege.*
- Therefore, **option 1** is correct.

94. Answer: b

Explanation:

The correct answer is This scheme will greatly benefit all of us

★ Key Points

- In Active Voice , a sentence emphasizes the subject, performing an action.
- In Passive Voice , a sentence emphasizes the action or the object of the sentence.
- The given sentence is in the passive voice and ' **We** ' is the subject and ' **this scheme** ' is the object.
- When we convert this sentence into active voice , the subject ' **we** ' of the passive voice becomes the object (objective case of pronoun for we is 'us') , the object 'this scheme ' becomes the subject .
- The passive format "will + be + V3" should be changed into the active format "will + V1 " .
- This is the active and passive voice rule for the future simple tense .
- Hence , the correct answer is option 2 .

★ Additional Information

- Verbs of passive format have a different set of tenses (*V3 - Past participle or Third form of the Verb) as given below in the table:

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Present Perfect Continuous	He has been playing football	Not used and unusual.	Not used and unusual
Past Simple	He played football	Was/were + V3	Football was played by him
Past Continuous	He was playing football	Was/were + being + V3	Football was being played by him
Past Perfect	He had played football	Had + been + V3	Football had been played by him
Past Perfect Continuous	He had been playing football	Not used and unusual	Not used and unusual
Future Simple	He will play football	Will + be + V3	Football will be played by him
Future Continuous	He will be playing football	Not used and unusual	Not used and unusual
Future Perfect	He will have played football	Will have been + V3	Football will have been played by him
Future Perfect Continuous	He will have been playing football	Not used and unusual	Not used and unusual

95. Answer: b

Explanation:

To solve the given question, we must first note that the answer must logically follow the words **took his ___**'.

The word **seat** fits this context as **take a seat** is an idiom that means to sit down in a particular place. None of the other words make sense in this particular context and therefore, **option 2 is correct**.

Note : **Take a stand** is also an idiom, but it means to **take a firm position on an issue** . This doesn't make sense in the given context and therefore, cannot be correct.

96. Answer: d

Explanation:

The correct answer is Humility.

★ Key Points

- Here are the meanings of the given words:
 - Arrogance - unpleasantly proud and behaving as if you are more important than other people.
 - **Conceit** - excessive pride in oneself
 - **Superiority** - the fact that one person or thing is better than another
 - **Vanity** - inflated pride in oneself or one's appearance
 - **Humility** - the quality of not being proud because you are aware of your bad qualities
- As we can see, the meaning of the word **humility** is directly in contrast to the meaning of the word
- Therefore, the correct answer is **option 4**.

97. Answer: b

Explanation:

The correct answer is **bibliophile**.

★ Key Points

- The word **bibliophile** comes from the roots **bibli** meaning books and **phile** meaning love.
- Bibliophile is a person who collects or has a great love of books. (एक व्यक्ति जो पुस्तकों का संग्रह करता है या उसे पुस्तकों से बहुत प्यार है।)

Therefore, **option 2 is correct**.

★ Additional Information

Here are the meanings of the other options:

- **Hemophile** – someone who has hemophilia i.e. a disease in which one's blood doesn't clot normally (जिसे हीमोफिलिया है यानी ऐसी बीमारी जिसमें किसी का खून सामान्य रूप से नहीं जमता है)
- **Xenophile** – a person who has an affection for unknown or foreign objects, cultures or people (एक व्यक्ति जिसे अज्ञात या विदेशी वस्तुओं, संस्कृतियों या लोगों से लगाव है)
- **Pedophile** – a person who is sexually attracted to children (एक व्यक्ति जो बच्चों के प्रति यौन रूप से आकर्षित होता है)

98. Answer: d

Explanation:

Here are the meanings of the given words:

- **Alibi** – proof that someone who is thought to have committed a crime could not have done it

- **Homonym** – words that are spelled the same and sound the same but have different meanings
- **Anonymous** – made or done by someone whose name is not known or not made public
- **Pseudonym** – a name someone uses instead of their real name, especially on a written work

As we can see, the word **pseudonym** conveys the meaning of the given group of words.

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

99. Answer: c

Explanation:

The word in question is correctly spelt as: **tuition**. It means teaching or instruction, especially of individual pupils or small groups.

Therefore, **option 3** is correct.

100. Answer: c

Explanation:

The correct answer is **proficient**

★ Key Points

Here are the meanings of the given options:

- **Deficient** – lacking or not having enough of something.
 - If someone or something is **deficient** in a particular thing, they do not have the full amount of it that they need in order to function normally or work properly.

- **Example:** *a diet deficient in vitamin B.*
- **Sufficient** – enough for a particular purpose.
 - If something is **sufficient** for a particular purpose, there is enough of it for the purpose.
 - **Example:** *One meter of fabric is sufficient to cover the exterior of an 18-in-diameter hatbox.*
- **Proficient** – skilled in doing something.
 - If you are **proficient** in something, you can do it well.
 - **Example:** *A great number of Egyptians are proficient in foreign languages.*
- **Efficient** – able to perform in a well-planned way.
 - **Example:** *The city's transport system is one of the most efficient in Europe.*
- Out of these, **option 3 proficient** best fits the context of the sentence.

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