



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 (12-Jun-2019) (Shift 2)

Total Time: 1 Hour

Total Marks: 200

Instructions

Sl No.	Section Name	No. of Question	Maximum Marks	Negative Marks	Positive Marks
1	General Intelligence and Reasoning	25	50	0.5	2
2	General Awareness	25	50	0.5	2
3	Quantitative Aptitude	25	50	0.5	2
4	English Comprehension	25	50	0.5	2

- 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 letter-clusters are alike in a certain way and one is different. Pick the odd one out. (+2, -0.5)

- a. SUXBG
- b. OQTXC
- c. JLKRW
- d. BDGKP

2. Three of the following four number-pairs are alike in a certain way and one is different. Pick the number-pair that is different from the rest. (+2, -0.5)

- a. 8 : 66
- b. 10 : 98
- c. 13 : 171
- d. 7 : 51

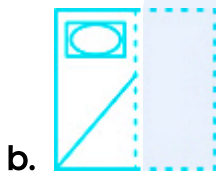
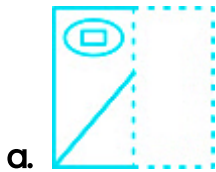
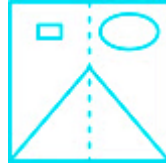
3. Which two signs should be interchanged to make the following equation correct? (+2, -0.5)

$$24 \div 12 - 6 \times 6 + 2 = 18$$

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

d. $\times$ and $+$

4. Select the option that depicts how the given transparent sheet of paper would appear if it is folded at the dotted line. (+2, -0.5)



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

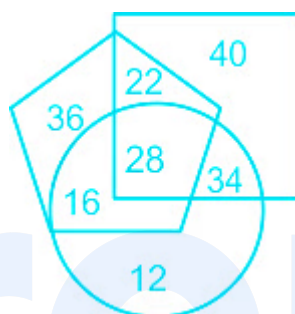
a. Eyes

b. Ears

c. Throat

d. Nose

6. In the given Venn diagram, the pentagon represents, 'Cricketers', the square represents 'Chess players' and the circle represents 'Clerks'. The numbers given in the diagram represent the number of persons in that particular category. (+2, -0.5)



How many cricketers are chess players but NOT clerks?

a. 34

b. 36

c. 22

d. 40

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





8. Which number will replace the question mark (?) in the following series? (+2, -0.5)

118, 129, 141, 154, 168, ?

a. 182

b. 181

c. 184

d. 183

9. Select the missing number from the given options. (+2, -0.5)

64 49 ?

12 17 4

20 24 8

- a. 16
- b. 25
- c. 36
- d. 12

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

- 1. Hunger
- 2. Cry
- 3. Feeding
- 4. Child
- 5. Sleep
- 6. Mother

- a. 4, 5, 2, 6, 3, 1
- b. 4, 1, 3, 6, 5, 2
- c. 4, 1, 2, 3, 5, 6
- d. 4, 1, 2, 6, 3, 5

11. Select the figure in which the given figure is embedded. (rotation is not allowed) (+2, -0.5)





12. Select the missing number from the given options.

(+2, -0.5)

8	27	?
7	2	3
9	5	7

a. 36

b. 16

c. 25

d. 64

13. Three different positions of the same dice are shown. Which symbol will be on the face opposite to the one having '&'?

(+2, -0.5)



- a. ^
- b. +
- c. #
- d. \$

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

Statements:

All postcards are envelopes.

No envelope is a paper.

Conclusions:

I. Some envelopes are postcards.

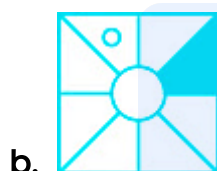
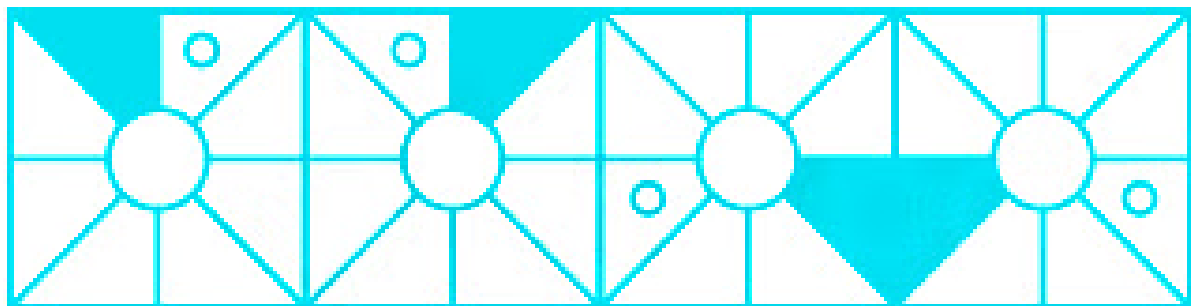
II. No paper is an envelope.

III. No postcard is a paper.

- a. Only conclusions I and III follow
- b. Only conclusions II and III follow
- c. Only conclusions I and II follow
- d. All the conclusions, I, II and III, follow

15. Select the figure that will come next in the following figure series.

(+2, -0.5)



16. Which letter will replace the question mark (?) in the following series?

(+2, -0.5)

P, U, R, W, T, ?, V, A, X

a. Y

b. Z

c. W

d. X

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

Dermatology : Skin

a. Cardiology : Angiography

b. Paediatrics : Lungs

c. Orthopedics : Bones

d. Medicine : Treatment

-
18. 'Valuable' is related to 'Precious' in the same way as 'Dry' is related to (+2, -0.5)
'_____'.
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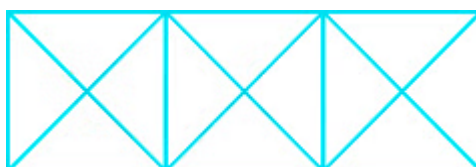
a. Arid

b. Firm

c. Rough

d. Wet

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



- a. 30
- b. 26
- c. 28
- d. 24

20. 'A + B' means 'A is the brother of B'.

(+2, -0.5)

'A - B' means 'A is the wife of B'.

'A × B' means 'A is the daughter of B'.

'A ÷ B' means 'A is the father of B'.

If $P + S \times Q \times R - T \div V \div U$, then how is T related to P?

- a. Paternal grandfather
- b. Maternal grandmother
- c. Paternal grandmother
- d. Maternal grandfather

21. In a code language, ARDOUS is written as 1184152119. How will SYSTEM be written as in that language?

(+2, -0.5)

- a. 19251921513
- b. 19251920513
- c. 19251920514
- d. 18251820513

22. In a code language, INFORMATIVE is written as ROFNILEVITA. How will (+2, -0.5)
SUPERFICIAL be written as in that language?

- a. REPUSGLAICI
- b. REPUSELAICI
- c. LAICIGREPUS
- d. USEPRFICAIL

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

7 : 344 :: 11 : ?

- a. 1331
- b. 122
- c. 121
- d. 1332

24. The sum of the current ages of Asma and her grandfather is 80 years. 10 (+2, -0.5)
years from now, Asma's age will be one-fourth of her grandfather's age.
What is Asma's current age?

- a. 16 years
- b. 12 years
- c. 20 years

d. 10 years

25. Which letter-cluster will replace the question mark (?) in the following series? (+2, -0.5)

PRT, TVX, ?, BDF, FHJ

a. XZC

b. YZB

c. XZB

d. XAB

prepp

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General Awareness

26. Burma became independent sovereign republic in the year _____. (+2, -0.5)

- a. 1946
- b. 1962
- c. 1948
- d. 1950

27. Which of the followings is the national bird of China? (+2, -0.5)

- a. Robin
- b. Parrot
- c. Barn Owl
- d. Red-crowned Crane

28. The river Ganga emerges from Gangotri Glacier and ends at _____. (+2, -0.5)

- a. Pacific Ocean
- b. Arabian Sea
- c. Indian Ocean
- d. Bay of Bengal

29. Who presides over the joint sitting of the Lok Sabha and the Rajya Sabha? (+2, -0.5)

- a. Speaker of Lok Sabha
 - b. Deputy Speaker of Lok Sabha
 - c. Prime Minister
 - d. Vice President
-

30. What is the chemical name of the deadly poison 'cyanide'? (+2, -0.5)

- a. Sulfuric acid
 - b. Hydrochloric acid
 - c. Nitric acid
 - d. Prussic acid
-

31. When the fiscal deficit is high, what happens to the prices? (+2, -0.5)

- a. There is no direct impact on the prices
 - b. Prices decrease
 - c. Prices increase
 - d. Prices remain stable
-

32. How many International airports are there in India? (Asked in CGL 12th June 2019 Shift 2) (+2, -0.5)

- a. 36
- b. 40

- c. 31
 - d. 34
-

33. UN's Economic and Social Council (ECOSOC) elected _____ to the 18-member committee 'CESCR' for the Asia Pacific seat in 2018. **(+2, -0.5)**

- a. Chandrashekhar Dasgupta
 - b. Arundhati Ghosh
 - c. Preeti Saran
 - d. Shashi Tharoor
-

34. Which instrument is used to measure blood pressure? **(+2, -0.5)**

- a. Sphygmomanometer
 - b. Lactometer
 - c. Thermometer
 - d. Glucometer
-

35. In which year was the University Grants Commission (UGC) formally established? **(+2, -0.5)**

- a. 1964
- b. 1947
- c. 1950

d. 1956

36. When was Indian Super League started?

(+2, -0.5)

a. 2015

b. 2012

c. 2011

d. 2013

37. Before the 104th Constitutional amendment act 2020, under which article of the Constitution of India can members of the Anglo Indian community be nominated to the Lok Sabha by the President?

(+2, -0.5)

a. 342

b. 326

c. 330

d. 331

38. The term _____ is prefixed to scientific terms to describe something that is constant.

(+2, -0.5)

a. Photo

b. Quasi

c. Iso

d. Mega

39. Who among the following became the fastest Asian to cycle around the globe in 2018? (+2, -0.5)
- a. Swati Sani
 - b. Deena Prince
 - c. Vedangi Kulkarni
 - d. Disha Srivastava
-

40. Who is the first Indian national to win the 'Sri Lanka Rathna' award? (+2, -0.5)
- a. Khushwant Singh
 - b. Narasimhan Ram
 - c. Vinod Mehta
 - d. Dileep Padgaonkar
-

41. Which country in the world has the largest number of international borders? (+2, -0.5)
- a. India
 - b. Pakistan
 - c. China
 - d. Nepal
-

42. Dolly, the first cloned living being created at Roslin Institute in Scotland was (+2, -0.5)
a. _____.

- a. cow
- b. sheep
- c. dog
- d. cat

43. Who among the following was given the title 'Quaid-i-Azam'? (+2, -0.5)

- a. Sardar Vallabhbhai Patel
- b. Mahatma Gandhi
- c. Muhammad Ali Jinnah
- d. Jawaharlal Nehru

44. In which year did the Indian Premier League (IPL) start? (+2, -0.5)

- a. 2010
- b. 2002
- c. 2008
- d. 2004

45. Mitra Mela was a revolutionary organisation founded by Vinayak Savarkar (+2, -0.5)
in the year _____.

- a. 1899
 - b. 1856
 - c. 1864
 - d. 1873
-

46. What is the value of all tangible resources such as raw materials and labour that are used in the production process called? (+2, -0.5)

- a. Variable Cost
 - b. Fixed Cost
 - c. Opportunity Cost
 - d. Real Cost
-

47. Who is the author of the book 'Freedom from Fear: And Other Writings'? (+2, -0.5)

- a. Barack Obama
 - b. A P J Abdul Kalam
 - c. Nelson Mandela
 - d. Aung San Suu Kyi
-

48. The term 'Blood Moon' is used to refer to _____. (+2, -0.5)

- a. Solar Eclipse
- b. Full Moon

- c. Lunar Eclipse
 - d. Crescent Moon
-

49. Catriona Gray of _ _ _ _ _ was crowned Miss Universe in 2018. (+2, -0.5)

- a. Spain
 - b. Philippines
 - c. Brazil
 - d. Venezuela
-

50. The traditional art of 'Jamdani' weaving originated in _ _ _ _ _ . (+2, -0.5)

- a. China
- b. Myanmar (Burma)
- c. Bangladesh
- d. Nepal

Quantitative Aptitude

51. Two articles are sold for Rs. 4880 each, on one article the seller gained 22% and on the other he lost 20%. What is his overall gain or loss percentage, nearest to one decimal place? (+2, -0.5)
- a. 3.6% loss
 - b. 3.6% gain
 - c. 3.4% loss
 - d. 3.4% gain
-
52. The price of sugar is increased by 24%. A person wants to increase his expenditure by 15% only. By what percentage, correct to one decimal place, should he reduce his consumption? (+2, -0.5)
- a. 7.3
 - b. 6.0
 - c. 7.5
 - d. 6.9
-
53. In a circle of radius 13 cm, a chord is at a distance of 5 cm from its centre. What is the length of chord? (+2, -0.5)
- a. 20 cm
 - b. 18 cm
 - c. 12 cm

d. 24 cm

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

a. 98

b. 104

c. 100

d. 102

55. The difference between compound interest and simple interest on Rs. x at 8% per annum for 2 years is Rs. 48. What is the value of x? (+2, -0.5)

a. 8000

b. 7400

c. 7800

d. 7500

56. Find the value of $7.5 + (5.4 \div 4.5 \times 2) - 8 \times 4 \div 3.2$ (+2, -0.5)

a. -0.2

b. 0.1

c. 0.2

d. -0.1

57. The value of $\sin^2 20^\circ + \sin^2 70^\circ - \tan^2 45^\circ + \sec 60^\circ$ is equal to: (+2, -0.5)

- a. 3
- b. 1
- c. 2
- d. 2.5

58. If $a + b + c = 6$ and $a^3 + b^3 + c^3 - 3abc = 126$, then $ab + bc + ca$ is equal to: (+2, -0.5)

- a. 5
- b. 8
- c. 6
- d. 12

59. If $a : b = 2 : 3$, then $(5a + 3b) : (6a - 2b)$ is equal to: (+2, -0.5)

- a. 19 : 6
- b. 3 : 2
- c. 10 : 7
- d. 17 : 5

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

- a. 70

b. 80

c. 65

d. 75

61. **Direction :** The table shows the production of rice (in million tonnes) of three states over six years. (+2, -0.5)

States	Years					
	2011	2012	2013	2014	2015	2016
A	5.2	5.4	5.8	6.2	6.5	6.9
B	3.8	4.1	4.4	4.8	5.2	5.7
C	4.5	5.2	5.8	6.4	6.7	7.4

Which is the ratio of the production of rice in all three states in the year 2014 to that in 2016?

a. 85 : 102

b. 87 : 100

c. 85 : 103

d. 89 : 100

62. **Direction :** The table shows the production of rice (in million tonnes) of three states over six years. (+2, -0.5)

States	Years					
	2011	2012	2013	2014	2015	2016
A	5.2	5.4	5.8	6.2	6.5	6.9
B	3.8	4.1	4.4	4.8	5.2	5.7
C	4.5	5.2	5.8	6.4	6.7	7.4

What is the percentage increase in the production of rice in B from 2014 to 2016?

- a. 18.25
- b. 17.75
- c. 18.75
- d. 17.25

63. **Direction :** The table shows the production of rice (in million tonnes) of three states over six years. (+2, -0.5)

States	Years					
	2011	2012	2013	2014	2015	2016
A	5.2	5.4	5.8	6.2	6.5	6.9
B	3.8	4.1	4.4	4.8	5.2	5.7
C	4.5	5.2	5.8	6.4	6.7	7.4

What is the average production of rice in state A over the years (in million tonnes)?

- a. 6.1
- b. 5.8
- c. 5.9
- d. 6

64. An article is sold for Rs. 612 after successive discounts of 25% and 15%. What is the marked price of the article? (+2, -0.5)

- a. Rs. 980
- b. Rs. 960
- c. Rs. 940
- d. Rs. 1000

65. **Direction :** The table shows the production of rice (in million tonnes) of three states over six years. (+2, -0.5)

States	Years					
	2011	2012	2013	2014	2015	2016
A	5.2	5.4	5.8	6.2	6.5	6.9
B	3.8	4.1	4.4	4.8	5.2	5.7
C	4.5	5.2	5.8	6.4	6.7	7.4

If the total production in three states in all six years is represented by a pie-chart, what is the central angle of the sector representing production in the year 2014. (to nearest whole number)?

- a. 63°
- b. 65°
- c. 59°
- d. 61°

66. In a class of 60 students, 40% are girls. The average weight of the whole class is 59.2 kg and the average weight of the girls is 55 kg. What is the average weight of the boys? (+2, -0.5)

- a. 61 kg
 - b. 60 kg
 - c. 62 kg
 - d. 63 kg
-

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

- a. $89/45$
 - b. $17/9$
 - c. 2
 - d. $88/45$
-

68. If $\operatorname{cosec} 3\theta = \sec (20^\circ + 2\theta)$, then θ is equal to: (+2, -0.5)

- a. 30°
 - b. 15°
 - c. 14°
 - d. 20°
-

69. The radii of two circular faces of the frustum of a cone of height 10.5 cm are 5 cm and 3 cm respectively. What is its volume in cm^3 ($\pi = 22/7$)? (+2, -0.5)

- a. 545
- b. 539

c. 552

d. 564

70. Walking at $\frac{3}{4}$ of his usual speed, a person reaches his office 18 minutes late than the usual time. His usual time in minutes is: (+2, -0.5)

a. 54

b. 45

c. 60

d. 72

71. The efficiencies of A, B and C are in the ratio of 2 : 3 : 5. Working together, they can complete a task in 6 days. In how many days will A alone complete 20% of that task? (+2, -0.5)

a. 8

b. 4

c. 5

d. 6

72. In $\triangle ABC$, P is a point on BC such that $BP : PC = 3 : 4$ and Q is the midpoint of BP. Then $\ar(\triangle ABQ) : \ar(\triangle ABC)$ is equal to: (+2, -0.5)

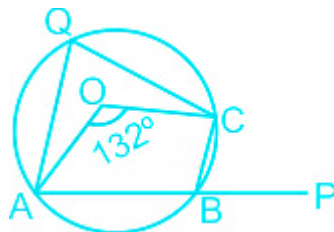
a. 1 : 4

b. 3 : 8

c. 3 : 14

d. 2 : 7

73. In a circle with centre O, an arc ABC subtends an angle of 132° at the center of the circle. Chord AB is produced to point P. Then $\angle CBP$ is equal to: (+2, -0.5)



a. 68°

b. 66°

c. 48°

d. 76°

74. What is the value of x so that the seven digit number 6913x08 is divisible by 88? (+2, -0.5)

a. 4

b. 2

c. 8

d. 6

75. $\triangle ABC \sim \triangle RQP$ and $PQ = 10$ cm, $QR = 12$ cm and $RP = 18$ cm. If $\text{ar}(\triangle ABC) : \text{ar}(\triangle PQR) = 4/9$, then AB is equal to: (+2, -0.5)

- a. 8 cm
- b. $20/3$ cm
- c. 12 cm
- d. 9 cm

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English Comprehension

76. 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)

Although a wild elephant, Chinna Thambi did not grow up entirely in the wild. For over the last (1) _____ he has had easy (2) _____ to food at Thadagam, a village surrounded by the Western Ghats near Coimbatore. Brick (3) _____ tempted him with (4) _____ of water and he loved the palm pith that was used as (5) _____ for baking bricks.

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

- a. store
- b. kilns
- c. jar
- d. tub

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77. Choose the option that is the passive form of the sentence. (+2, -0.5)

A campus fire in California caused the death of at least twenty-three persons.

- a. The death of at least twenty three persons caused a campus fire in California.
- b. The death of at least twenty three persons will be caused in a campus fire in California.
- c. At least twenty-three person's death was caused in a campus fire in California.

- d. The death of at least twenty three persons was caused by a campus fire in California.

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

Since he secured the first rank Sudhir has become swollen-headed.

- a. unwell
- b. conceited
- c. famous
- d. well-connected

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)

Although a wild elephant, Chinna Thambi did not grow up entirely in the wild. For over the last (1) _____ he has had easy (2) _____ to food at Thadagam, a village surrounded by the Western Ghats near Coimbatore. Brick (3) _____ tempted him with (4) _____ of water and he loved the palm pith that was used as (5) _____ for baking bricks.

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

- a. entry
- b. approach
- c. access
- d. way

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)

Although a wild elephant, Chinna Thambi did not grow up entirely in the wild. For over the last (1) _____ he has had easy (2) _____ to food at Thadagam, a village surrounded by the Western Ghats near Coimbatore. Brick (3) _____ tempted him with (4) _____ of water and he loved the palm pith that was used as (5) _____ for baking bricks.

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

- a. annual
- b. summer
- c. festival
- d. decade

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

ABSURD

- a. sensible
- b. sentimental
- c. selfish
- d. sensitive

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

INTRICATE

- a. colourful
- b. complete
- c. connected
- d. complex

-
83. Select the alternative that will improve the underlined part of the sentence. In case there is no improvement, select "No improvement". (+2, -0.5)

I am very much pleased to see you here today.

- a. very pleased
- b. No improvement
- c. too much pleased
- d. very pleasing

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

Throughout his speech the crowd was all ears.

- a. covering their ears
- b. making a lot of noise
- c. talking loudly
- d. very attentive

85. Select the correctly spelt word.

(+2, -0.5)

- a. meazured
- b. leisure
- c. restaurent
- d. robbery

86. Given below are four jumbled sentences. Select the option that gives their correct order.

(+2, -0.5)

- A. This network of stories is known in academic circles as 'fiction' or 'imagined realities'.
- B. However, an imagined reality is not a lie.
- C. Over the years, people have woven an incredibly complex network of stories.
- D. Within this network, fiction not only exists but also accumulates immense power.

- a. DBAC
- b. DBCA
- c. CADB
- d. ADBC

87. 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)

Although a wild elephant, Chinna Thambi did not grow up entirely in the wild. For over the last (1) _____ he has had easy (2) _____ to food at Thadagam, a village surrounded by the Western Ghats near Coimbatore. Brick (3) _____ tempted him with (4) _____ of water and he loved the palm pith that was used as (5) _____ for baking bricks.

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

- a. matter
- b. fuel
- c. fodder
- d. logs

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

When you want to expand your vocabulary the best thing to do is to relate a known word with an _____ one and guess the meaning from the context.

- a. unclear
- b. essential
- c. unfamiliar
- d. unnecessary

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

Incapable of being corrected

- a. incredible

- b.** impossible
 - c.** incorrigible
 - d.** inviolable
-

90. Identify the segment in the sentence, which contains the grammatical error. (+2, -0.5)

The reduction in the cost of education due to an increase in subsidies offer by the government is also seen as a reason to get more educated.

- a.** The reduction in the cost of education
 - b.** due to an increase in subsidies
 - c.** is also seen as a reason
 - d.** offer by the government
-

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

In order to _ _ _ _ _ to a new place you may need to adjust to the ways of that culture.

- a.** adhere
 - b.** adopt
 - c.** adapt
 - d.** avoid
-

92. Identify the segment in the sentence, which contains the grammatical error. (+2, -0.5)

"Unless you did not do your homework you will be punished," said the teacher.

- a. you will be punished
- b. do your homework
- c. Unless you did not
- d. said the teacher.

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

ASSIST

- a. mend
- b. create
- c. change
- d. help

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

- A. If the mixture becomes too thick add more milk.
- B. Finally, add sugar and nuts, and your kheer is ready.
- C. Boil milk in a heavy-bottomed pan and add rice.

D. Cook for about twenty minutes stirring every once in a while till the mixture thickens.

- a. DACB
- b. BADC
- c. CDAB
- d. ADCB

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

ACQUIT

- a. evict
- b. convict
- c. forgive
- d. clear

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

- a. queit
- b. quiet
- c. quiete
- d. qiete

97. 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)

Although a wild elephant, Chinna Thambi did not grow up entirely in the wild. For over the last (1) _____ he has had easy (2) _____ to food at Thadagam, a village surrounded by the Western Ghats near Coimbatore. Brick (3) _____ tempted him with (4) _____ of water and he loved the palm pith that was used as (5) _____ for baking bricks.

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

- a. much
- b. load
- c. many
- d. plenty

98. Select the alternative that will improve the underlined part of the sentence in case there is no improvement select "No improvement". (+2, -0.5)

The flowers smell so sweetly that I want to pluck them.

- a. will smell so sweet
- b. smell so sweet
- c. smelling so sweetly
- d. No improvement

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

That which cannot be heard

- a. inaudible
- b. hidden
- c. slight
- d. invisible

100. Choose the option that is the active form of the sentence.

(+2, -0.5)

It was decided by the members that the report would be placed before the Chairman for his comments.

- a. The members decided to place the report before the Chairman for his comments.
- b. The Chairman decided to place the report before the members.
- c. Did the members decide to place the report before the Chairman?
- d. The Chairman's comments were to be placed on the report of the members.

Answers

1. 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

The pattern followed here is,

$$S + 2 = U + 3 = X + 4 = B + 5 = G$$

$$B + 2 = D + 3 = G + 4 = K + 5 = P$$

$$O + 2 = Q + 3 = T + 4 = X + 5 = C$$

$$J + 2 = L - 1 = K + 7 = R + 5 = W$$

Hence, JLKRW is the correct answer.

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2. Answer: b

Explanation:

The pattern followed here is,

$$\text{Second number} = (\text{first number})^2 + 2$$

$$7 : 51 \rightarrow 51 = (7)^2 + 2 = 49 + 2 = 51$$

$$10 : 98 \rightarrow 98 = (10)^2 + 2 = 100 + 2 = 102 \neq 98$$

$$8 : 66 \rightarrow 66 = (8)^2 + 2 = 64 + 2 = 68$$

$$13 : 171 \rightarrow 171 = (13)^2 + 2 = 169 + 2 = 171$$

Hence, '10 : 98' is odd one out.

3. Answer: b

Explanation:

Interchanging $\div$ and $\times$

$$24 \times 12 - 6 \div 6 + 2$$

$$= 24 \times 12 - 1 + 2 = 288 - 3 = 285 \neq 18$$

Interchanging $+$ and $\div$

$$24 + 12 - 6 \times 6 \div 2$$

$$= 24 + 12 - 6 \times 3 = 24 + 12 - 18 = 18 = 18$$

Interchanging $+$ and $-$

$$24 \div 12 + 6 \times 6 - 2$$

$$= 2 + 6 \times 6 - 2 = 2 + 12 - 2 = 12 \neq 18$$

Interchanging $\times$ and $+$

$$24 \div 12 - 6 + 6 \times 2$$

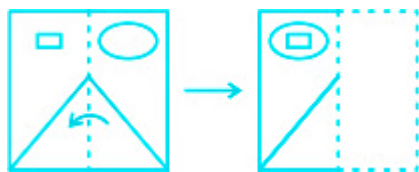
$$= 2 - 6 + 6 \times 2 = 2 - 6 + 12$$

$$= 8 \neq 18$$

Hence, option 2 is the correct answer.

4. Answer: a

Explanation:



Hence, figure 2 is the correct answer.

5. Answer: c

Explanation:

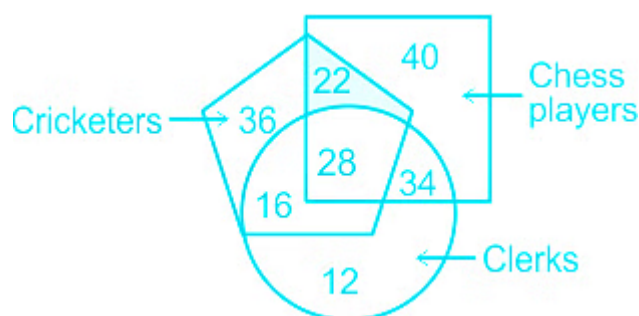
Ears, Eyes and Nose are among the 5 sense organs whereas Throat is not a sense organ.

Hence, throat is the odd one out.

6. Answer: c

Explanation:

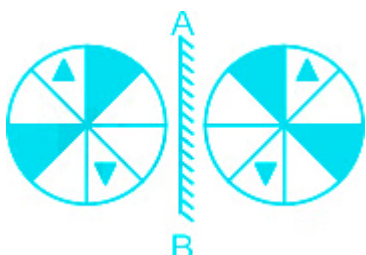
By seeing the figure 22 person are cricketer and chess player but not clerks.



Hence, 22 is the correct answer.

7. Answer: a

Explanation:



Hence, figure 2 is the correct answer.

8. Answer: d

Explanation:

The pattern followed here is,

$$118 + 11 = 129;$$

$$129 + 12 = 141;$$

$$141 + 13 = 154;$$

$$154 + 14 = 168;$$

$$168 + 15 = \mathbf{183}$$

Hence, 183 is the correct answer.

9. Answer: a

Explanation:

The pattern followed here is,

1st number = (3rd number - 2nd number)²(from top to bottom)

$$64 = (20 - 12)^2 = 8^2 = 64$$

$$49 = (24 - 17)^2 = 7^2 = 49$$

Similarly,

$$? = (8 - 4)^2 = 4^2 = 16$$

Hence, 16 is the correct answer.

10. Answer: d

Explanation:

The logical and meaningful order is as follows,

Child → Hunger → Cry → Mother → Feeding → Sleep

Hence, 4, 1, 2, 6, 3, 5 is the correct answer.

11. Answer: b

Explanation:



Hence, figure 1 is the correct answer.

12. Answer: d

Explanation:

The pattern followed here is,

1st number = (3rd number - 2nd number)³(from top to bottom)

$$8 = (9 - 7)^3 = 2^3 = 8$$

$$27 = (5 - 2)^3 = 3^3 = 27$$

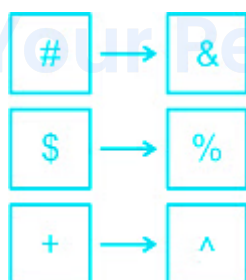
Similarly,

$$? = (7 - 3)^3 = 4^3 = 64$$

Hence, 64 is the correct answer.

13. Answer: c

Explanation:

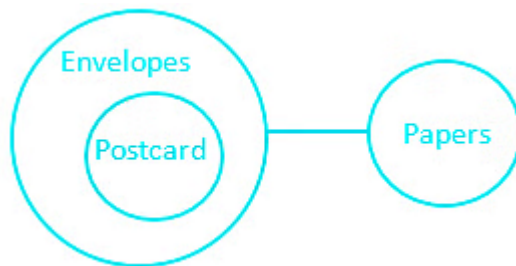


Hence, '#' is the correct answer.

14. Answer: d

Explanation:

The best possible Venn diagram according to the information is as follows,



I. Some envelopes are postcards $\rightarrow$ True, as all postcards are envelopes, some envelope will definitely be the postcards.

II. No paper is an envelope $\rightarrow$ True, as no envelope is a paper.

III. No postcard is a paper $\rightarrow$ True, as postcards are envelopes, and no envelope is a paper.

Hence, all conclusions I, II and III follow.

15. Answer: c

Explanation:



Here, the shaded part is rotating in the clockwise direction. In each step, the no. of parts skipped increases by 1.

Therefore, option 1 and 4 get eliminated.

The small circle is moving in the anticlockwise direction. In each step, the no. of parts skipped increases by 1.

Therefore, option 2 gets eliminated.

Hence, the figure in option 3 is the correct answer.

16. Answer: a

Explanation:

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

The pattern followed here is,

$$P + 5 = U;$$

$$U - 3 = R;$$

$$R + 5 = W;$$

$$W - 3 = T;$$

$$T + 5 = Y;$$

$$Y - 3 = V;$$

$$V + 5 = A;$$

$$A - 3 = X$$

Hence, Y is the correct answer.

17. Answer: c

Explanation:

The first word is branch of science that deals with in study of second word,
 Like branch of science that deals with study of skin is known as Dermatology,
 Similarly,
 The branch of science that deals with study of bones is known as Orthopedics.
 Hence, 'Orthopedics : Bones' is the correct answer.

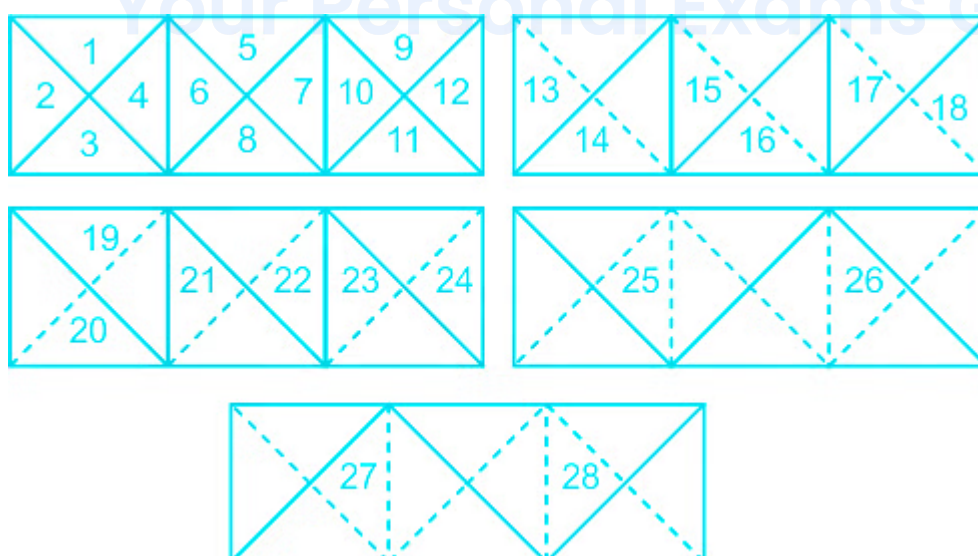
18. Answer: a

Explanation:

Synonym of valuable is precious in the same way synonym of dry is Arid.
 Hence, 'Arid' is the correct answer.

19. Answer: c

Explanation:



Hence, total 28 triangles are there in the given figure.

20. Answer: d

Explanation:

Given equation: $P + S \times Q \times R - T \div V \div U$

$P + S$ means P is brother of S

$S \times Q$ means S is daughter of Q

$Q \times R$ means Q is daughter of R

$R - T$ means R is wife of T

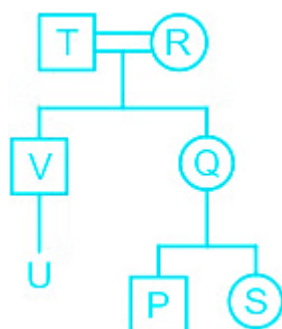
$T \div V$ means T is father of V

$V \div U$ means V is father of U

Thus, using the following notations, we can draw the family tree:

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

Best possible diagram is as follows:



Hence, T is P's maternal grandfather.

21. Answer: b

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

According to the alphabetical positions of the letters,

A	R	D	O	U	S
1	18	4	15	21	19

Similarly,

S	Y	S	T	E	M
19	25	19	20	5	13

Hence, 19251920513 is the correct answer.

22. Answer: b

Explanation:

The pattern followed here is,

INFORMATIVE
-1
ROFNILEVITA

Similarly,

SUPERFICIAL
-1
REPUSELAICI

Hence, 'REPUSELAICI' is the correct answer.

23. Answer: d Your Personal Exams Guide

Explanation:

The pattern followed here is,

$$2^{\text{nd}} \text{ number} = (1^{\text{st}} \text{ number})^3 + 1$$

$$344 = (7)^3 + 1 = 343 + 1 = 344$$

Similarly,

$$? = (11)^3 + 1 = 1331 + 1 = 1332$$

Hence, 1332 is the correct answer.

24. Answer: d

Explanation:

As per the question,

Let current age of Asma be X and that of her grandfather be Y .

$$\text{Sum of their age} = X + Y = 80 \quad \dots(i)$$

Age 10 years from now,

$X + 10$ will be of Asma and $Y + 10$ of her grandfather, also given that

$$X + 10 = \frac{1}{4} (Y + 10) \quad \dots(ii)$$

From (i) $X = 80 - Y$ put in (ii)

$$80 - Y + 10 = \frac{1}{4} (Y + 10)$$

$$90 - Y = \frac{1}{4} (Y + 10)$$

$$360 - 4Y = Y + 10$$

$$5Y = 350$$

$$Y = 70$$

Put $Y = 70$ in (i)

Therefore, $X = 10$

Hence, 10 is the correct answer.

25. 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

The pattern followed here is,

$$P + 2 = R + 2 = T$$

$$T + 2 = V + 2 = X$$

$$X + 2 = Z + 2 = B$$

$$B + 2 = D + 2 = F$$

$$F + 2 = H + 2 = J$$

Hence, XZB is the correct answer.

26. Answer: c

Explanation:

- Burma became an independent sovereign republic on 4 January 1948.
- Burma was colonized by Britain in the 19th century.
- It got free from the UK on this day.
- The country is bordered by India, China, Laos, and Thailand.

27. Answer: d

Explanation:

- Red-crowned Crane is the national bird of China.
- Grand Cayman Parrot is the national bird of Cayman Islands.

- Robin is the national bird of Bangladesh.
- Barn Swallow is the national bird of Austria.

28. Answer: d

Explanation:

- The river Ganga emerges from Gangotri Glacier and ends at Bay of Bengal.
- Ganges is the longest river of India.
- It is 2,525 km long.
- Its tributaries include Yamuna, Gandak, Ramganga, Son, Ghaghra, Gomti, Kosi, Tamsa, Punpun, and Mahananda.

29. Answer: a

Explanation:

The correct answer is Speaker of Lok Sabha.

★ Important Points

The Speaker of Lok Sabha presides over the joint sitting of the Lok Sabha and the Rajya Sabha.

- The **Deputy Speaker** of the Lok Sabha presides over in his **absence**. If he is also **absent**, then the **Deputy Chairman** of the Rajya Sabha presides over it.
- The Chairman never presides over the joint sessions.

★ Key Points

A **joint sitting** is summoned in the following **three situations**, (in which one House passed the Bill and transmitted it to the other House)

1. If the other House rejects the bill.

2. disagreements have arisen between the Houses regarding the amendments to be made in the Bill.
3. If the other House withhold the Bill without passing it for more than six months.

The **President** is the one who summons the **joint sitting**.

- The provision for joint sitting is **not** applicable for **Money bills and Constitution amendment bills**.

30. Answer: d

Explanation:

★ Key Points

- **Prussic acid** is the chemical name of the deadly poison 'cyanide'.
- It is an extremely poisonous liquid with the chemical formula HCN.

Nitric acid	HNO_3
Hydrochloric acid	HCL
Prussic acid	HCN
Sulfuric acid	H_2SO_4

31. Answer: a

Explanation:

- When the fiscal deficit is high, **there is no direct impact on the prices**.
- When the government spends more money than what it earned during the fiscal year, then it is known as fiscal deficit.

32. Answer: d

Explanation:

Important Point :

- There are a total of 34 International Airports in India.

Prepp

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International Airport Name	International Airport Location
Chhatrapati Shivaji International Airport	Mumbai, Maharashtra
Kempegowda International Airport	Bangalore, Karnataka
Chennai International Airport	Chennai, Tamil Nadu
Netaji Subhas Chandra Bose International Airport	Kolkata, West Bengal
Chaudhary Charan Singh International Airport	Lucknow, Uttar Pradesh
Sri Guru Ram Dass Jee International Airport	Amritsar
Visakhapatnam International Airport	Visakhapatnam, Andhra Pradesh
Kannur International Airport	Kannur, Kerala
Swami Vivekananda International Airport	Raipur, Chhattisgarh
Surat International Airport	Surat, Gujarat
Devi Ahilya Bai Holkar Airport	Indore, Madhya Pradesh
Cochin International Airport	Kochi, Kerala
Sardar Vallabhbhai Patel International Airport	Ahmedabad, Gujarat
Indira Gandhi International Airport	Delhi
Dabolim Airport	Goa
Pune International Airport	Pune, Maharashtra
Thiruvananthapuram International Airport	Thiruvananthapuram, Kerala
Coimbatore International Airport	Coimbatore, Tamil Nadu
Calicut International Airport	Calicut, Kerala

Biju Patnaik International Airport	Bhubaneswar, Odisha
Lokpriya Gopinath Bordoloi International Airport	Guwahati, Assam
Lal Bahadur Shastri International Airport	Varanasi, Uttar Pradesh
Rajiv Gandhi International Airport	Hyderabad, Telangana
Tiruchirappalli International Airport	Tiruchirappalli, Tamil Nadu
Dr. Babasaheb Ambedkar International Airport	Nagpur, Maharashtra
Sheikhul Aalam International Airport	Srinagar, Jammu and Kashmir
Imphal International Airport	Imphal, Manipur
Jaipur International Airport	Jaipur, Rajasthan
Madurai International Airport	Madurai, Tamil Nadu
Bagdogra International Airport	Siliguri, West Bengal
Jay Prakash Narayan International Airport	Patna, Bihar
Mangaluru International Airport	Mangalore, Karnataka
Chandigarh International Airport	Chandigarh
Veer Savarkar International Airport	Port Blair, Andaman and Nicobar Islands

33. Answer: c

Explanation:

- UN's Economic and Social Council (ECOSOC) elected **Preeti Saran** to the 18-member committee 'CESCR' for the Asia Pacific seat in 2018.
- She was elected for a 4-year term which began on 1 January 2019.

- The CESCR was set up by the Economic and Social Council (ECOSOC) of the UN in 1985.
 - Its aim is to monitor the implementation of the International Covenant on Economic, Social, and Cultural Rights (ICESR).
 - The **President of the United Nations Economic and Social Council** is Mr. Oh Joon. (As of Oct 2021) .
-

34. Answer: a

Explanation:

- A Sphygmomanometer is used to measure blood pressure.
 - A Thermometer is a device which measures body temperature.
 - The density of milk is measured by lactometer.
 - Glucometer monitors or measures blood glucose. It tests the amount of glucose in the blood.
-

35. Answer: d

Explanation:

- The University Grants Commission (UGC) was formally established in the year 1956.
 - It is a statutory organization which was set up by the Union Government to maintain the standards of university education.
 - It provides funds for the colleges and universities which are government-recognised.
 - It is headquartered in New Delhi and has 6 regional centres.
-

36. Answer: d

Explanation:

- Indian Super League was founded on 21 October **2013**.
- It was launched with the goal of growing football in India and also to increase its exposure.
- It is played in a span of 6 months between 10 teams and organized by All India Football Federation.
- Its first season was held in 2014 with 8 teams.

37. Answer: d

Explanation:

The correct answer is **331**.

- In January 2020, the Anglo-Indian reserved seats in the Parliament and State Legislatures of India were abolished by the 104th Constitutional Amendment Act, 2019
- Om Birla is the 17th and current speaker of Lok Sabha.

★ Key Points

- Under article 331 of the Constitution of India can members of the Anglo Indian community be nominated to the Lok Sabha by the President.
- Article 342 covers The Scheduled Tribes in India.
- Article 330 deals with the reservation of seats of SCs and STs in Parliament.
- Article 326 was amended in 1988 by the 61st Amendment Act, 1988. It lowered the voting age from 21 years to 18 years.

★ Additional Information

- The Rajya Sabha should consist of not more than 250 members – 238 members representing the States and Union Territories, and 12 members nominated by the President. Each member is elected for a term of six years.

- Jagdeep Dhankar is the current Chairman of Rajya Sabha and the present Vice-President of India.
 - 104th Constitutional Amendment Act ceased the reservation of seats for Anglo-Indians in the Lok Sabha and State Legislative assemblies and extended reservations for SCs and STs for up to ten years.
-

38. Answer: c

Explanation:

- The term Iso is prefixed to scientific terms to describe something that is constant.
 - Quasi means partly.
 - Mega means very large
 - Photo is a prefix related to light.
-

39. Answer: c

Explanation:

- Vedangi Kulkarni became the fastest Asian to cycle around the globe in 2018.
 - She completed the distance of 29,000 km which was required to qualify.
 - She started in July 2018 from Perth.
 - She peddled upto 300 km a day for 159 days in 14 countries.
-

40. Answer: b

Explanation:

- Narasimhan Ram is the first Indian national to win the 'Sri Lanka Rathna' award.
- He was awarded on 14 November 2005.

- He is an Indian journalist and also served as the MD of The Hindu till 2012.
- The award is the highest national honour conferred by Sri Lanka to the non-nationals.

41. Answer: c

Explanation:

- China and Russia have the largest number of international borders.
- Both have 14 neighbouring countries.
- The neighbouring countries of China include Mongolia, Russia, Kazakhstan, Pakistan, Afghanistan, Tajikistan, Kyrgyzstan, Bhutan, Nepal, India, Myanmar, Vietnam, Laos, and North Korea.
- The neighbouring countries of Russia include Ukraine, Belarus, Latvia, Estonia, Finland, Norway, North Korea, China, Georgia, Mongolia, Azerbaijan, Kazakhstan, Lithuania and Poland.

42. Answer: b

Explanation:



The correct answer is Sheep. **Key Points**

- Dolly was a female domestic sheep and the first mammal which was cloned on July 5, 1996.
 - She was cloned from an adult somatic cell through the process of nuclear transfer .
 - She was cloned at the Roslin Institute in Midlothian , Scotland, and survived there until her death when she was 6 years old.
 - Her existence was announced to the public on 22 February 1997.

- She was originally code-named "6LL3," but later on she was named after singer and actress Dolly Parton.

★ Additional Information

- Cloning
 - Cloning is the production of an exact copy of a cell, any other living part, or a complete organism.
 - Cloning of an animal was successfully performed for the first time by Ian Wilmut and his colleagues at the Roslin Institute in Edinburgh, Scotland.

43. Answer: c

Explanation:

- Muhammad Ali Jinnah was given the title 'Quaid-i-Azam'.
- Quaid-i-Azam means Great Leader.
- He was also known by the name Baba-i-Quam, which means The Father of the Nation.
- He served as the leader of All-Indian Muslim League and also as the Governor-General of Pakistan.

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44. Answer: c

Explanation:

- The Indian Premier League (IPL) began in the year 2008 and was founded by BCCI (Board of Control for Cricket in India).
- It is a 20-20 cricket league which is held every year in the month of April-May.
- Mumbai Indians were the winner of the IPL 2019 held in Hyderabad.
- Currently, there are a total of 10 teams playing in the IPL (2022).

45. Answer: a

Explanation:

- Mitra Mela was a revolutionary organisation founded by Vinayak Savarkar in the year 1899 in Nashik.
 - He, along with his brother Ganesh Savarkar established the society.
 - It is now known by the name Abhinav Bharat Society or the Young India Society.
 - Vinayak Savarkar was a politician, lawyer, writer, and an independence activist.
-

46. Answer: d

Explanation:

- The value of all tangible resources such as raw materials and labour that are used in the production process is called real cost.
 - A fixed cost is that which does not change with a decrease or increase in the amount of services or goods sold or produced.
 - Opportunity Costs are the benefits that an investor or individual misses out when choosing one alternative over other.
 - Variable Costs are corporate expenses which change in proportion to production output.
-

47. Answer: d

Explanation:

- Aung San Suu Kyi is the author of the book 'Freedom from Fear: And Other Writings'.

A P J Abdul Kalam	Ignited Minds
Aung San Suu Kyi	Freedom from Fear: And Other Writings
Barack Obama	Of Thee I Sing
Nelson Mandela	Dare Not Linger

48. Answer: c

Explanation:

- The term 'Blood Moon' is used to refer to Lunar Eclipses since the moon takes on a reddish tinge when it is fully eclipsed.
- A lunar eclipse occurs when the moon travels through the umbra of the earth and blocks all direct sunlight.
- A solar eclipse occurs when the new moon comes between the earth and the sun, thus blocking the sun rays.

49. Answer: b

Explanation:

- Catriona Gray of Philippines was crowned Miss Universe in 2018.
- The pageant was held on 17 December 2018 in Bangkok, Thailand.
- Philippines, South Africa and Venezuela were the final three contestants.

50. Answer: c

Explanation:

- The traditional art of 'Jamdani' weaving originated in Dhaka, Bangladesh.

- The Jamdani sarees are also known as Dhakai sarees.
- Jam means flower and dani means vase.
- Its earliest mention is found in Arthshastra which dates back to 3rd century BC.
- The art bloomed the most during the Mughal Period.

51. Answer: c

Explanation:

Correct Answer **3.4% loss**

★ Key Points:

SP of each article = Rs. 4,880

CP of first article = $4,880 \times [100/122] = 4,000$

CP of second article = $4,880 \times [100/80] = 6,100$

Total SP of both article = $4,880 \times 2 = 9,760$

Total CP of both article = $4,000 + 6,100 = 10,100$

Total loss = $10,100 - 9,760 = 340$

Loss percentage = $[340/10,100] \times 100 = 3.36\% \approx 3.4\%$

52. Answer: a

Explanation:

Let initial price of sugar be $100x$

Price of sugar after increased = $100x \times [124/100] = 124x$

Person wants his expenditure increase by 15% only,

So his expenditure should be $= 100x \times [115/100] = 115x$

Required percentage $= [(124 - 115x)/124] \times 100 = 7.25\% \approx 7.3\%$

53. Answer: d

Explanation:

Let AB is chord and point M is the midpoint of AB, O is the centre

Given, OB = 5 cm and OM = 13 cm

In $\triangle OMB$

Using Pythagoras theorem

$$\Rightarrow (OB)^2 = (OM)^2 + (MB)^2$$

$$\Rightarrow 13^2 = 5^2 + (MB)^2$$

$$\Rightarrow MB = \sqrt{(169 - 25)} = 12$$

As we know, AB = 2 MB

$$AB = 2 \times 12 = 24 \text{ cm}$$

54. Answer: a

Explanation:

As we know,

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

Given, $\sqrt{x} + 1/\sqrt{x} = 2\sqrt{2}$

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

$$\Rightarrow [2\sqrt{2}]^2 = x + 1/x - 2$$

$$\Rightarrow x + 1/x = 8 + 2 = 10$$

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

$$\Rightarrow 10^2 = x^2 + 1/x^2 + 2$$

$$\Rightarrow x^2 + 1/x^2 = 100 - 2 = 98$$

55. Answer: d

Explanation:

As we know,

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

Given, $r = 8\%$, time = 2 years and $P = x$

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

$$\Rightarrow (P \times 8 \times 8)/100 \times 100 = 48$$

$$\Rightarrow P = 7500$$

56. Answer: d

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.

$$\Rightarrow 7.5 + (5.4 \div 4.5 \times 2) - 8 \times 4 \div 3.2$$

$$\Rightarrow 7.5 + (6/5 \times 2) - 8 \times (1/0.8)$$

$$\Rightarrow 7.5 + 2.4 - 10$$

$$\Rightarrow 9.9 - 10$$

$$\Rightarrow -0.1$$

57. Answer: c

Explanation:

$$\Rightarrow \sin^2 20^\circ + \sin^2 70^\circ - \tan^2 45^\circ + \sec 60^\circ$$

$$\Rightarrow \sin^2 20^\circ + \sin^2 (90^\circ - 20^\circ) - 1^2 + 2$$

$$\Rightarrow \sin^2 20^\circ + \cos^2 20^\circ - 1 + 2 \quad [\because \sin(90^\circ - \theta) = \cos \theta \text{ and } \sin^2 \theta + \cos^2 \theta = 1]$$

$$\Rightarrow 1 - 1 + 2$$

$$\Rightarrow 2$$

58. Answer: a

Explanation:

Given:

$$a + b + c = 6 \text{ and}$$

$$a^3 + b^3 + c^3 - 3abc = 126$$

Formula used:

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

Calculation:

As we know,

$$\Rightarrow a^3 + b^3 + c^3 - 3abc = (a + b + c) [(a + b + c)^2 - 3(ab + bc + ca)]$$

$$\Rightarrow 126 = 6 [6^2 - 3(ab + bc + ca)]$$

$$\Rightarrow 126 = 6 [36 - 3(ab + bc + ca)]$$

$$\Rightarrow 3 \times (ab + bc + ca) = 36 - 21$$

$$\therefore (ab + bc + ca) = 5$$

★ Additional Information

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

$$(a + b + c)^2 = a^2 + b^2 + c^2 + 2(ab + bc + ca)$$

59. Answer: a

Explanation:

$$\Rightarrow a : b = 2 : 3$$

Suppose $a = 2$ and $b = 3$

$$\Rightarrow (5a + 3b) : (6a - 2b)$$

$$\Rightarrow (5 \times 2 + 3 \times 3) : (6 \times 2 - 2 \times 3)$$

$$\Rightarrow (10 + 9) : (12 - 6)$$

$$\Rightarrow 19 : 6$$

60. Answer: b

Explanation:

$$\Rightarrow (a + b)^3 = a^3 + b^3 + 3ab(a + b)$$

$$\text{Given, } a + b = 5 \text{ and } ab = 3$$

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

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

61. Answer: b

Explanation:

$$\text{Total production of rice of all three states in 2014} = 6.2 + 4.8 + 6.4 = 17.4$$

$$\text{Total production of rice of all three states in 2016} = 6.9 + 5.7 + 7.4 = 20$$

$$\text{Required ratio} = 17.4 : 20 = 87 : 100$$

62. Answer: c

Explanation:

$$\text{Production of rice of state B in 2014} = 4.8$$

$$\text{Production of rice of state B in 2016} = 5.7$$

$$\text{Required percentage} = [(5.7 - 4.8)/4.8] \times 100 = 18.75\%$$

63. Answer: d

Explanation:

Total production of rice of state A over the years = $5.2 + 5.4 + 5.8 + 6.2 + 6.5 + 6.9 = 36$ million tonnes

Required average = $36/6 = 6$ million tonnes

64. Answer: b

Explanation:

MP of the article Rs. x

According to the question

$$\Rightarrow x \times [75/100] \times [85/100] = 612$$

$$\Rightarrow x = 960$$

MP of the article = Rs. 960

65. Answer: a

Explanation:

Total production of rice of state A over the years = $5.2 + 5.4 + 5.8 + 6.2 + 6.5 + 6.9 = 36$ million tonnes

Total production of rice of state B over the years = $3.8 + 4.1 + 4.4 + 4.8 + 5.2 + 5.7 = 28$ million tonnes

Total production of rice of state C over the years = $4.5 + 5.2 + 5.8 + 6.4 + 6.7 + 7.4 = 36$ million tonnes

Total production of rice of three states in all six years = $36 + 28 + 36 = 100$ million tonnes

Total production of rice of three states in 2014 = $6.2 + 4.8 + 6.4 = 17.4$ million tonnes

100 million tonnes represents = 360°

17.4 million tonnes will represents = $[360/100] \times 17.4 = 62.64^\circ \approx 63^\circ$

66. Answer: c

Explanation:

Total students in the class = 60

Average weight of class = 59.2 kg

Sum of weight of all class = $59.2 \times 60 = 3,552$

Number of girls in class = $60 \times 40/100 = 24$

Number of boys in class = $60 - 24 = 36$

Average weight of girls is = 55

Sum of weight of girls is = $55 \times 24 = 1320$

Sum of weight of boys is = $3,552 - 1320 = 2232$

Average weight of boys = $2232/36 = 62$ kg

67. Answer: a

Explanation:

Given, $3 \sin \theta = 4 \cos \theta$

$\Rightarrow \sin \theta / \cos \theta = 4/3$

$$\Rightarrow \tan \theta = 4/3$$

$$\Rightarrow \tan \theta = \text{Perpendicular}/\text{Base} = 4/3$$

Using Pythagoras theorem

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

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

$$\Rightarrow (\text{Hypotenuse}) = \sqrt{(9 + 16)} = 5$$

$$\Rightarrow \tan^2 \theta + \sin \theta - \cos \theta$$

$$\Rightarrow (4/3)^2 + 4/5 - 3/5 \quad [\sin \theta = P/H, \cos \theta = B/H \text{ and } \tan \theta = P/H]$$

$$\Rightarrow 16/9 + 4/5 - 3/5$$

$$\Rightarrow (80 + 36 - 27)/45$$

$$\Rightarrow 89/45$$

68. Answer: c

Explanation:

$$\Rightarrow \operatorname{cosec} 3\theta = \sec(20^\circ + 2\theta),$$

$$\Rightarrow \operatorname{cosec} 3\theta = \operatorname{cosec}[90^\circ - (20^\circ + 2\theta)] \quad [\operatorname{cosec}(90^\circ - \theta) = \sec \theta]$$

$$\Rightarrow 3\theta = 90^\circ - 20^\circ - 2\theta$$

$$\Rightarrow 5\theta = 70^\circ$$

$$\Rightarrow \theta = 14^\circ$$

69. Answer: b

Explanation:

Radii of two circular faces of the frustum of a cone are 5 cm and 3 cm

Height of the circular frustum of cone $H = 10.5$ cm

As we know,

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

$$\Rightarrow \frac{1}{3} \times \frac{22}{7} \times [5^2 + 3^2 + 5 \times 3] \times 10.5$$

$$\Rightarrow 11 \times [25 + 9 + 15]$$

$$\Rightarrow 11 \times 49$$

$$\Rightarrow 539$$

70. Answer: a**Explanation:**

Concept Used:

As we know,

Time is inversely proportional to speed.

Calculation:

Let the usual speed of the person be $4x$

And, Speed of the person after decreasing = $3x$

Ratio of usual speed to after decreasing = $4x : 3x$

Ratio of usual time to after decreasing = $3x : 4x$

Now, $4x - 3x = 18$

$$\Rightarrow x = 18$$

$$3x = 18 \times 3 = 54 \text{ min}$$

71. Answer: d

Explanation:

The efficiencies of A, B and C are in the ratio of 2 : 3 : 5

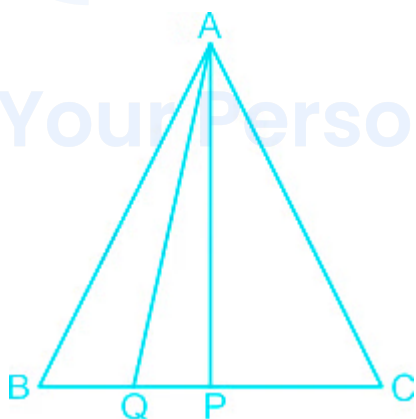
$$\text{Total work} = (2 + 3 + 5) \times 6 = 60$$

$$20\% \text{ of the total work} = 60 \times 20/100 = 12$$

$$20\% \text{ of the total work completed by A in} = 12/2 = 6$$

72. Answer: c

Explanation:



Given, $BP : PC = 3 : 4$

Suppose $BP = 3$ unit and $PC = 4$ unit

$$BC = BP + PC = 3 + 4 = 7 \text{ unit}$$

If Q is the midpoint of BP, then $BQ = QP$

$$BQ = BP/2 = 3/2 = 1.5 \text{ unit}$$

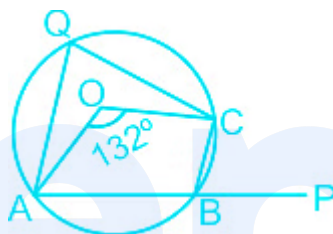
$$\text{or } \Delta ABQ : \text{or } \Delta ABC = BQ : BC$$

$$\text{or } \Delta ABQ : \text{or } \Delta ABC = 1.5 : 7 = 3 : 14$$

73. Answer: b

Explanation:

As we know



The angle subtended by an arc at the centre of a circle is double the size of the angle subtended by the same arc at the circle circumference

Take any point Q on the circumference and join AQ and QC.

$$\therefore \angle AOC = 2 \times \angle AQC$$

$$\Rightarrow \angle AQC = 1/2 \times \angle AOC = 1/2 \times 132^\circ = 66^\circ$$

Now, $\angle CBP = \angle AQC$ [Exterior angle of cyclic quadrilateral]

$$\Rightarrow \angle CBP = 66^\circ$$

74. Answer: c

Explanation:

Divisibility law of 8 $\Rightarrow$ A number divisible by 8 if its last three digit is divisible by 8.

Divisibility law of 11: If the difference of the alternating sum of digits of the number is a multiple of 11 (e.g. 2343 is divisible by 11 because $2 - 3 + 4 - 3 = 0$, which is a multiple of 11).

$\Rightarrow 6913x08$ divisible by 8 if $x = 0$ or 8

75. Answer: a

Explanation:

$\Rightarrow$ Given $\Delta ABC \sim \Delta RQP$,

$\Rightarrow PQ = 10$ cm, $QR = 12$ cm, $RP = 18$ cm and $\text{ar}(\Delta ABC) : \text{ar}(\Delta PQR) = 4/9$,

As we know,

$\Rightarrow \text{ar}(\Delta ABC) / \text{ar}(\Delta PQR) = (AB/RQ)^2$

$\Rightarrow AB^2 / 12^2 = 4/9$

$\Rightarrow AB^2 = 12^2 \times 4/9$

$\Rightarrow AB = 12 \times 2/3 = 8$ cm

76. Answer: b

Explanation:

The correct answer is option 2.

Kilns mean a furnace or oven for burning, baking, or drying, especially one for calcining lime or firing pottery. So the most appropriate word is **kilns** as bricks are being mentioned.

77. Answer: d

Explanation:

The correct answer is option 4.

In the given sentence, **fire** is the subject and death **of at least twenty-three persons** is the object. While changing voice, we will reverse these. Also, it is in the past tense. So, **was caused** will be used. So, option 4 is correct.

78. Answer: b

Explanation:

The correct answer is option 2.

The given idiom means conceited or excessively proud of oneself. The sentence means that **since he secured first rank, he has become excessively proud of himself.**

79. Answer: c

Explanation:

The correct answer is option 3.

Access should be used as it means the right or opportunity to use or benefit from something. So, the sentence means that he had easy means to food at Thadagam.

80. Answer: d

Explanation:

The correct answer is option 4.

The words **for over** means that the writer is talking about a long period of time. So, the most appropriate option is option 4.

81. Answer: a

Explanation:

The correct answer is option 1.

Absurd means wildly unreasonable, illogical, or inappropriate.

Sensible means done or chosen in accordance with wisdom or prudence; likely to be of benefit.

Sentimental means of or prompted by feelings of tenderness, sadness, or nostalgia.

Selfish means lacking consideration for other people; concerned chiefly with one's own personal profit or pleasure.

Sensitive means having or displaying a quick and delicate appreciation of others' feelings.

82. Answer: d

Explanation:

The correct answer is option 4.

Intricate means very complicated or detailed.

Colourful means having much or varied colour; bright.

Complete means having all the necessary or appropriate parts.

Connected means joined together so as to provide access and communication.

Complex means **consisting of many different and connected parts**.

83. Answer: a

Explanation:

★ Key Points

The correct answer is option 1.

The word **much** is not required as **very** already makes the meaning clear. So, option 1 is correct.

'Very Much'

For example, **we can not use 'very' before past participles in the passive voice**. We use the phrase 'very much' instead. However,

'very'

alone, can be used before adjectives that end in '- **ed**'. Remember, before comparative adjectives, we use 'very much' and not 'very'.

84. Answer: d

Explanation:

The correct answer is '**very attentive**'.

★ Key Points

- Let's look at the **meaning** of the given phrase.
 - The phrase '**all ears**' means **one is listening with one's full attention**.
 - **Example**: *The children were all ears when Granny told them stories.*

- Therefore, the **correct meaning** of the given phrase is: **very attentive**.

★ Additional Information

- **Origin** of the idiom:
 - This phrase originated in the **18th century** and One of the **first recorded** uses of the phrase is in an edition of **The London Magazine** from 1752.

85. **Answer: b**

Explanation:

The correct answer is option 2.

The correct spellings of options 1,3 and 4 are **measured, restaurant and robbery** respectively.

86. **Answer: c**

Explanation:

The correct answer is option 3.

The first sentence should be **C**as it gives the introduction of what is being talked about in the following sentences i.e. **network of stories** . Next is **A**which gives the title to this network. After this, it should be **D**as it gives further information about the network. Last will be **B**

The **correct sequence** is :CADB.

87. **Answer: b**

Explanation:

The correct answer is option 2.

It has been mentioned that **palm pith was used in the process of baking bricks**. The process requires material such as coal, gas, or oil that is burned to produce heat or power. So, option 2 is correct.

88. Answer: c

Explanation:

The correct answer is option 3.

The sentence clearly instructs that **we have to relate the known word with the one which is unknown to us in order to expand vocabulary**. So, the correct answer is unfamiliar.

89. Answer: c

Explanation:

The correct answer is option 3.

Incredible means impossible to believe.

Impossible means not able to occur, exist or be done.

Incorrigible means not able to be changed or reformed.

Inviolable means never to be broken, infringed, or dishonoured.

90. Answer: d

Explanation:

The correct answer is option 4.

The **offer** should be replaced by **offered** as the past participle form of the verb should be used in this sentence because the government has already performed that action i.e. increase in subsidies. So, option 4 is correct.

91. Answer: c

Explanation:

The correct answer is option 3.

Adhere means believe in and follow the practices of.

Adopt means choose to take up, follow, or use.

Adapt means to become adjusted to new conditions.

Avoid means keep away from or stop oneself from doing (something).

The most suitable word is **adapt** which describes that in order to be adjusted to a new place you may need to adjust to the ways of that culture.

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92. Answer: c

Explanation:

The correct answer is option 3.

Did is the past tense form of the verb **do** which is an incorrect form according to the sentence. So, option 3 has the error

The sentence should be --"Unless you do your homework you will be punished," said the teacher.

93. Answer: d

Explanation:

The correct answer is option 4.

Assist means help (someone), typically by doing a share of the work.

Mend means repair (something that is broken or damaged).

Create means bring (something) into existence.

Change means make or become different.

94. Answer: c

Explanation:

The correct answer is option 3.

The given process is the recipe for kheer.

Clearly, first should be **C** as we need to boil milk and add rice. Next should be **D** as it states for how much time it should be cooked. **A** tells what to do to make it drinkable. Clearly **B** is the final step.

The correct sequence is **CDAB**.

95. Answer: b

Explanation:

The correct answer is option 2.

Acquit means free (someone) from a criminal charge by a verdict of not guilty.

Evict means expel (someone) from a property, especially with the support of the law.

Convict means declare (someone) to be guilty of a criminal offence by the verdict of a jury or the decision of a judge in a court of law.

Forgive means stop feeling angry or resentful towards (someone) for an offence, flaw, or mistake.

Clear means easy to perceive, understand, or interpret.

96. Answer: b

Explanation:

The correct answer is option 2.

The correct spelling is **quiet**.

97. Answer: d

Explanation:

The correct answer is option 4.

Many is used with countable nouns.

The load is incorrect as it should be **loads**.

Much is more desirable in a negative sentence,

So, the most appropriate word would be **plenty of**.

98. Answer: b

Explanation:

The correct answer is option 2.

The sentence gives a general statement so we should use **sweet instead** of **sweetly** which is used when an action is performed in a sweet manner. So, option 2 needs improvement.

99. Answer: a

Explanation:

The correct answer is option 1.

Inaudible means **unable to be heard**.

Hidden means kept out of sight; concealed.

Slight means small in degree; inconsiderable.

Invisible means unable to be seen.

100. Answer: a

Explanation:

The correct answer is option 1.

The **members** should be the **subject** in the active form of the sentence. **Would be placed** is used that means the action will take place. So, **option 1 is correct**.

Option 2 changes the meaning of the sentence.

Option 3 is an interrogative sentence which is incorrect.

Option 4 is incorrect because the sentence does not talk about placing the chairman's comments but of placing the report.

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