



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 (07-Jun-2019) (Shift 3)

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.

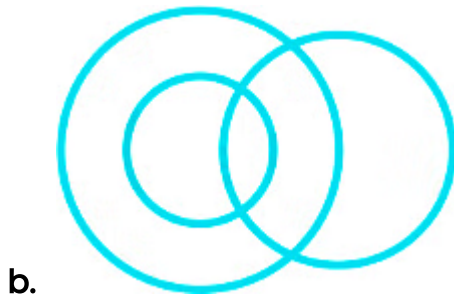
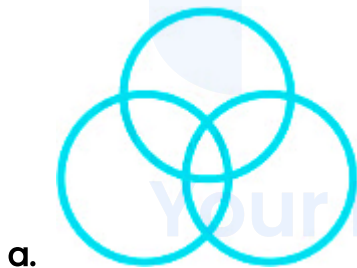
General Intelligence and Reasoning

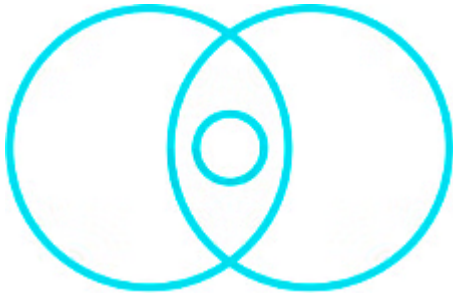
1. Three of the following four words are alike in a certain way and one is different. Pick the odd word out. (+2, -0.5)

- a. Afghanistan
- b. Indonesia
- c. Ireland
- d. Nepal

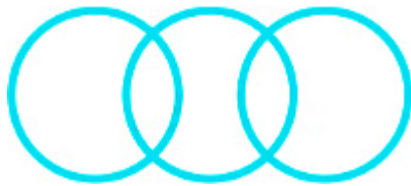
2. Select the Venn diagram that best illustrates the relationship between the following classes. (+2, -0.5)

Villagers, Poor Persons, Males





c.



d.

3. Select the number pair in which the two numbers are related in the same way as are the two numbers of the following number-pair. (+2, -0.5)

27 : 8

- a. 12 : 3
- b. 39 : 14
- c. 19 : 5
- d. 33 : 9

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

- a. 343
- b. 731
- c. 1331
- d. 2197

5. 'Judgment' is related to 'Deliver' in the same way as 'Rule' is related to (+2, -0.5)
'_____'.

- a. Follow
- b. Implement
- c. Practice
- d. Render

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

Mnemonic: Memory

- a. Audition: Music
- b. Sedative: Sleep
- c. Drama: Acting
- d. Audience: Speech

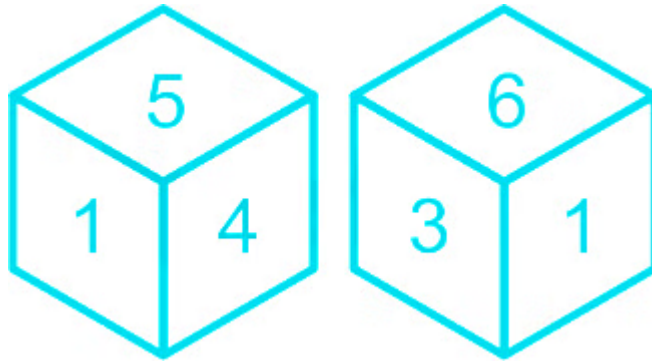
7. Select the option that is related to the third letter-cluster in the same way (+2, -0.5)
as the second letter-cluster is related to the first letter-cluster.

FLQV : JISU :: DJNR : ?

- a. HGPQ
- b. FGQN
- c. HMPS

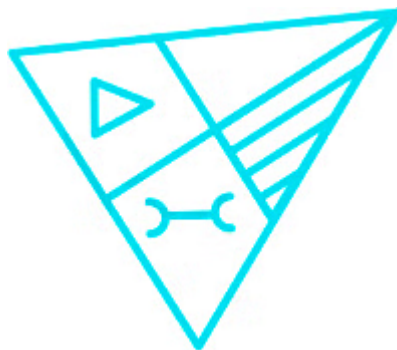
d. HGLQ

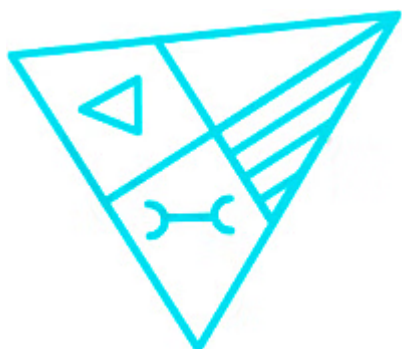
8. The different positions of the same dice are shown. Which number will be at the top if 3 is at the bottom? (+2, -0.5)



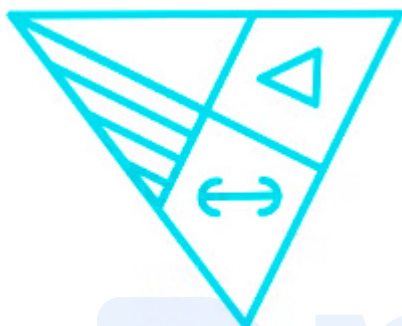
- a. 1
b. 2
c. 4
d. 5

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





a.



b.



c.



d.

10. Two statements are given, followed by three conclusions numbered I, II and III. Assuming the statement to be true even if they seem to be at (+2, -0.5)

variance with commonly known facts, decide which of the conclusions logically follow(s) from the statements.

Statements:

Some quadrilateral are squares.

All squares are rhombuses.

Conclusions:

I. No quadrilateral is a rhombus.

II. All rhombuses are squares.

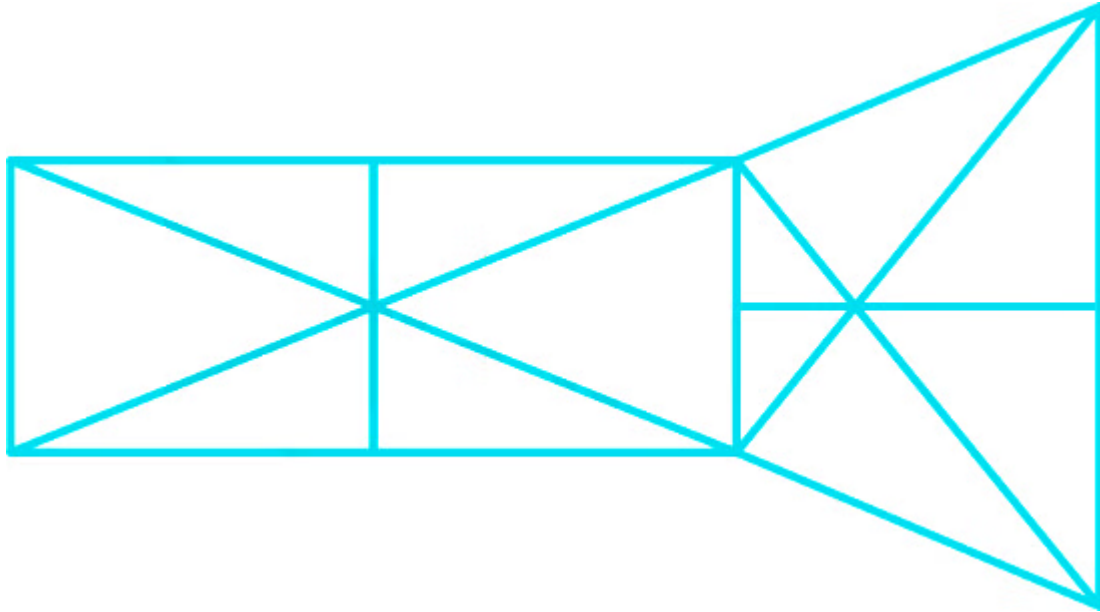
III. Some quadrilaterals are rhombuses.

- a. Only conclusion III follows
- b. Only conclusion II follows
- c. None of the conclusions follows
- d. Only conclusion I follows

11. If the word ANGEL is coded as BOHFM, then what will be the third alphabet in the code for the word SAVAGE? (+2, -0.5)

- a. U
- b. X
- c. B
- d. W

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



- a. 29
- b. 31
- c. 27
- d. 25

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

1. Doctor
 2. Recovery
 3. Hospital
 4. Home
 5. Sickness
 6. Medicine store
- a. 5, 3, 1, 6, 2, 4

b. 5, 3, 6, 1, 3, 2

c. 1, 5, 3, 6, 4, 2

d. 4, 5, 6, 1, 3, 2

14. If (+2, -0.5)

+ denotes -

denotes *

denotes /

/ denotes +

then what will be the numeric value of

$$60 * 10 / 40 + 6 - 5 =$$

a. 16

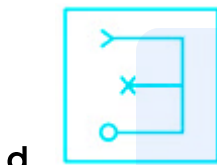
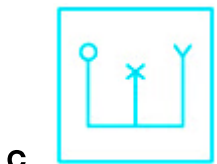
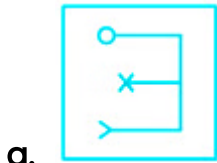
b. 3

c. 200

d. 144

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





16. Select the set in which the number are related in the same way as are the number of the following set. (+2, -0.5)

(11, 16, 20)

a. (15, 20, 24)

b. (9, 14, 19)

c. (21, 26, 32)

d. (17, 23, 26)

17. Select the combination of letters what sequentially placed in the gaps of the given letter series will complete the series. (+2, -0.5)

cd_ab_cd_abb_dda_b

- a. dbcbc
- b. dbdcb
- c. bbcdb
- d. cbdab

-
18. Select the option that is related to the fifth term in the same way as the second term is related to the first term and the fourth term is related to the third term. (+2, -0.5)

6472 : 25 :: 7343 : 41 :: 6582 : ?

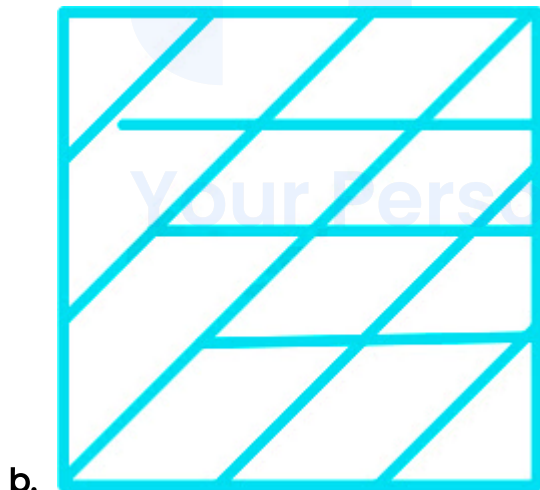
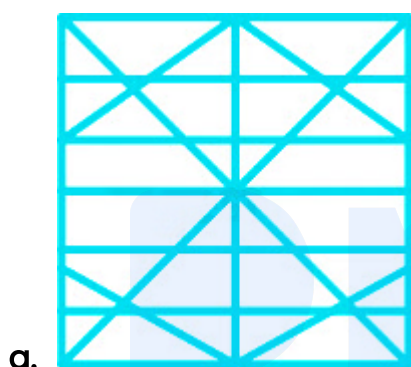
- a. 16
- b. 18
- c. 13
- d. 14

-
19. A cycle was sold for Rs.4, 140 with a profit of 15%. At what price could it have been sold to earn a profit of 25% (+2, -0.5)

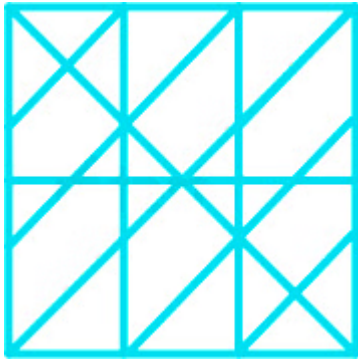
- a. Rs. 4,500
- b. Rs. 4,200
- c. Rs. 4,350
- d. Rs. 4,850

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

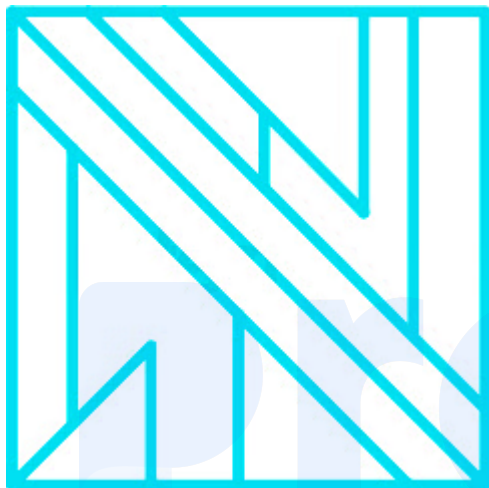
(+2, -0.5)



c.



d.



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

- a. Tamil Nadu : South
- b. Kerala : North-West
- c. Assam : North-East
- d. Punjab : North

22. 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. HLP
- b. DHL
- c. PTX
- d. LPQ

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

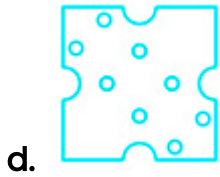
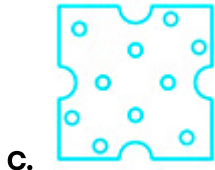
7, 11, 18, 29, ?, 76

- a. 53
- b. 47
- c. 44
- d. 61

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



- a.
- b.



25. Three of the following four letter-clusters alike in a certain way and one is different. Pick the odd one out. (+2, -0.5)

- a. FNMG
- b. SKLV
- c. BKJC
- d. PXWQ

Your Personal Exams Guide

General Awareness

26. Asian Games, also known as Asiad, is a multi-sport event held every _____ years among athletes from all over Asia. (+2, -0.5)
- a. three
 - b. four
 - c. six
 - d. five
-
27. The base financial year for the calculation of the all India Index of Industrial Production (IIP) is: (+2, -0.5)
- a. 2004-2005
 - b. 2011-2012
 - c. 2005-2006
 - d. 2010-2011
-
28. The Qutub Minar was named after the Sufi saint _____. (+2, -0.5)
- a. Qutub-ud-Din Aibak
 - b. Alauddin Sabir Kaliyar
 - c. Syed Waheed Ashraf
 - d. Khwaja Qutbuddin Bakhtiyar Kaki
-

29. _____ won gold in the Men's freestyle wrestling 65 kg category at the Dan Kolov 2019 wrestling event. (+2, -0.5)

- a. Yogeshwar Dutt
 - b. Sandeep Tomar
 - c. Sushil Kumar
 - d. Bajrang Punia
-

30. The Almatti dam project on the Krishna river was an issue between which states? (+2, -0.5)

- a. Karnataka and Goa
 - b. Karnataka and Andhra Pradesh
 - c. Karnataka and Tamil Nadu
 - d. Andhra Pradesh and Tamil Nadu
-

31. _____ built the world famous Harmandir Sahib, popularly known as the Golden Temple in Amritsar. (+2, -0.5)

- a. Guru Ram Das
 - b. Guru Arjan Dev
 - c. Guru Angad Dev
 - d. Guru Siri Har Rai
-

32. _____ is an important road link between Srinagar on one side and Kargil and Leh on the other side. (+2, -0.5)

- a. Zoji La
 - b. Qara Tag La
 - c. Muling La
 - d. Shipki La
-

33. During whose reign did the Chinese traveller Hiuen Tsang visit India? (+2, -0.5)

- a. Harshavardhana
 - b. Chandragupta Vikramaditya
 - c. Chandragupta I
 - d. Samudragupta
-

34. Flying Officer _____ of the Indian Air Force (IAF) created history by becoming the first Indian woman to fly her first solo fighter flight in a Russian made MiG-21 fighter. (+2, -0.5)

- a. Bhawana Kanth
 - b. Mohana Singh
 - c. Avani Chaturvedi
 - d. Anjali Gupta
-

35. Who decides on the issue related to the disqualification of a Member of Lok Sabha under Tenth Schedule? (+2, -0.5)

- a. Vice President
- b. Speaker
- c. Prime Minister
- d. President

36. The theory that dinosaurs were driven to extinction by the aftermath of a large asteroid impact on Earth was given by _____. (+2, -0.5)

- a. Wilhelm Röntgen
- b. Luis Alvarez
- c. Henry Moseley
- d. William Crookes

37. 'Shifting cultivation' is also known as _____ in north-east India. (+2, -0.5)

- a. Chena
- b. Jhum
- c. Ladang
- d. Logan

38. The maximum number of nominated members to Lok Sabha by the president is _____. (+2, -0.5)

- a. 4
 - b. 2
 - c. 0
 - d. 1
-

39. The deficiency of which nutrient causes night blindness ? (+2, -0.5)

- a. Vitamin C
 - b. Proteins
 - c. Vitamin K
 - d. Vitamin A
-

40. _____ codified the first two laws of thermodynamics and deduced that the absolute zero of temperature is -273.15°C . He was honoured for this with the naming of the Kelvin temperature scale. (+2, -0.5)

- a. William Crookes
 - b. Luis Alvarez
 - c. William Thomson
 - d. Robert Hooke
-

41. What does the Lorenz Curve indicate? (+2, -0.5)

- a. Relationship between the price of a certain commodity and its demand
 - b. Income distribution
 - c. Taxable income elasticity
 - d. Rate of employment
-

42. In March 2019, the Government of _____ launched the 'Lose to Win' programme to assist overweight employees shed extra kilos and adopt a healthy lifestyle. (+2, -0.5)

- a. UAE
 - b. Australia
 - c. US
 - d. UK
-

43. Brazilian physicist and astronomer _____ was awarded the 2019 Templeton Prize, worth \$1.4 million, for his work blending science and spirituality. (+2, -0.5)

- a. Marcelo Gleiser
- b. Edwin Hubble
- c. Nicolaus Copernicus
- d. Charles Messier

44. _____ was the first person to isolate methane gas. He discovered that methane mixed with air could be exploded using an electric spark. (+2, -0.5)

- a. William Thomson
- b. William Crookes
- c. Louis Pasteur
- d. Alessandro Volta

45. _____ is famous for outstanding specimen of Buddhist art and architecture, belonging to the period between the 3rd century B.C. and the 12th century A.D. (+2, -0.5)

- a. Dewas
- b. Vidisha
- c. Sanchi
- d. Satna

46. In March 2018, Indian actress _____ was named as the new ambassador of the international award-winning non-profit organisation, Educate Girls. (+2, -0.5)

- a. Deepika Padukone
- b. Priyanka Chopra
- c. Katrina Kaif
- d. Aishwarya Rai

47. The Suri king _____ defeated Humayun to regain his kingdom. (+2, -0.5)

- a. Sikandar Suri
- b. Mahmood Suri
- c. Bahalol Suri
- d. Sher Shah Suri

48. Who invented the atomic battery in 1913? (+2, -0.5)

- a. Henry Moseley
- b. Benjamin Franklin
- c. Alessandro Volta
- d. Louis Pasteur

49. Who was the Fifth Sikh Gurus? (+2, -0.5)

- a. Guru Angad
- b. Guru Hargobind
- c. Guru Arjan Dev
- d. Guru Ramdas

50. In March 2019, a science teacher from rural Kenya named _____ won the prestigious Global Teacher Prize 2019, worth \$1 million, which honours the world's best teacher. (+2, -0.5)

- a. Hanan Al Hroub
- b. Peter Tabichi
- c. Nancie Atwell
- d. Andria Zafirakou

Prepp

Your Personal Exams Guide

Quantitative Aptitude

51. What is the compound interest on a sum of Rs. 8,100 for $1\frac{1}{4}$ years at 8% per annum, if the interest is compounded 5-monthly? (Nearest to Rs.1) **(+2, -0.5)**
- a. Rs. 873
 - b. Rs. 824
 - c. Rs. 842
 - d. Rs. 837.3
-
52. By how much percentage above the cost price should an article be marked up for sale so that after allowing two successive discounts of 20% and 6.25% on it, a net gain of 20% is made on the cost? **(+2, -0.5)**
- a. $46\frac{1}{4}\%$
 - b. 60%
 - c. $66\frac{2}{3}\%$
 - d. 50%
-
53. Two chords AB and CD of lengths 5 cm and 11 cm respectively are parallel and are on the same side of the centre O of a circle. If the distance between the chords is 3 cm, then what is the diameter of the circle? **(+2, -0.5)**
- a. $\sqrt{146}$ cm
 - b. 38 cm
 - c. $\sqrt{142}$ cm

d. 37 cm

54. The base and altitude of an isosceles triangle are 10 cm and 12 cm respectively. Then the length of each equal side is: (+2, -0.5)

a. 10 cm

b. 7.5 cm

c. 8.5 cm

d. 13 cm

55. A sum of Rs. x is divided among A, B and C such that the ratio of shares of A and B is 7 : 12 and that of B and C is 8 : 5. If the difference in the shares of A and C is Rs. 214, then the value of x is: (+2, -0.5)

a. 11, 770

b. 11, 128

c. 11, 556

d. 11, 342

56. **Direction :** The table shows the production of different type of cars (in thousands). (+2, -0.5)

Years Car	2014	2015	2016	2017	2018
A	42	53	44	66	65
B	46	49	57	64	72
C	54	45	45	50	56
D	48	56	63	65	68
E	46	48	56	57	64

The average production of cars in 2018 is approximately what percent less than the total production of type D cars in 2015 and type B cars in 2017 taken together?

- a. 45.83%
- b. 43.6%
- c. 42.4%
- d. 44.2%

57. **Direction :** The table shows the production of different type of cars (in thousands). (+2, -0.5)

Years Car	2014	2015	2016	2017	2018
A	42	53	44	66	65
B	46	49	57	64	72
C	54	45	45	50	56
D	48	56	63	65	68
E	46	48	56	57	64

The total production of type A cars in 2016 and type E cars in 2014 taken together is what percent of the total production of type C cars during 2014 to 2018?

- a. 32
- b. 40
- c. 35
- d. 36

58. A cylindrical road roller made of metal is one meter long. Its inner radius is 27 cm and the thickness of the metal sheet rolled into it is 9 cm. What is the weight of the roller, if 1 cm³ of the metal weight 8 g?

- a. 453.6π kg
- b. 442.4π kg
- c. 449π kg
- d. 441π kg

59. The value of $\sin^2 30^\circ \cdot \cos^2 45^\circ + 4 \tan^2 30^\circ + (\sin^2 90^\circ)/2 + 2 \cos 90^\circ$ is: (+2, -0.5)

- a. 2
- b. $23/12$
- c. $15/8$
- d. $47/24$

60. If 10-digit number $67127y76x2$ is divisible by 88, then the value of $(7x - 2y)$ is: (+2, -0.5)

- a. 10
- b. 3
- c. 5
- d. 7

61. Four different positive numbers are written in ascending order. One-third of the average of all the four numbers is 19 less than the greatest of these numbers. If the average of the first three numbers is 12, the greatest number among the given numbers is: (+2, -0.5)

- a. 25
- b. 24
- c. 21
- d. 22

62. The value of $6 - 6 \div 6 \times 6 + (6 \div 6 \text{ of } 6) \times 6 - (3\frac{2}{3} \div \frac{11}{3} \text{ of } \frac{2}{3} \div 5)$ is: (+2, -0.5)

- a. -1
- b. 7/10
- c. 2
- d. 0

63. Surbhi spends 75% of her income. If her income increases by 20% and saving decrease by 1% then the percentage increase in her expenditure is: (+2, -0.5)

- a. 22
- b. 2.7
- c. 27
- d. 2.2

64. A journey of 96 km takes one hour less by a fast train (A) than by a slow train (B). If the average speed of B is 16 km/h less than that of A, then the average speed (in km/h) of A is: (+2, -0.5)

- a. 64

b. 60

c. 48

d. 54

65. $\left(\frac{2 \tan 30^\circ}{1 - \tan^2 30^\circ} \right) = ?$ (+2, -0.5)

a. $\sqrt{3}$

b. $1/3$

c. $1/\sqrt{3}$

d. 3

66. A person sells an article at a profit of 12%. If he had purchased it for 12% less and sold it for Rs. 9 less, he would have gained 27%. What is the original cost price of the article? (+2, -0.5)

a. Rs. 4,500

b. Rs. 4,000

c. Rs. 4,250

d. Rs. 3,750

67. If $\frac{6x}{(2x^2 + 5x - 2)} = 1$, $x > 0$, then the value of $x^3 + \frac{1}{x^3}$ is : (+2, -0.5)

a. $5\sqrt{17}/16$

b. $5\sqrt{17}/8$

c. $3\sqrt{17}/4$

d. $3\sqrt{17/8}$

68. If $(8x^3 + 27y^3) \div (2x + 3y) = (Ax^2 + Bxy + Cy^2)$, then the value of $(5A + 4B + 3C)$ is: (+2, -0.5)

a. 24

b. 27

c. 26

d. 23

69. **Direction :** The table shows the production of different type of cars (in thousands). (+2, -0.5)

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Your Personal Exams Guide

Years Car	2014	2015	2016	2017	2018
A	42	53	44	66	65
B	46	49	57	64	72
C	54	45	45	50	56
D	48	56	63	65	68
E	46	48	56	57	64

What is the ratio of the total production of type A cars in 2017 and type C cars in 2014 taken together to the total production of type B cars in 2014, type C cars in 2017 and type E cars in 2018 taken together?

- a. 12 : 11
- b. 5 : 6
- c. 2 : 3
- d. 3 : 4

70. **Direction :** The table shows the production of different type of cars (in thousands). (+2, -0.5)

Years Car	2014	2015	2016	2017	2018
A	42	53	44	66	65
B	46	49	57	64	72
C	54	45	45	50	56
D	48	56	63	65	68
E	46	48	56	57	64

If the data related to the production of type D cars is represented by a pie chart, then the central angle of the sector representing the production of cars in 2017 will be:

- a. 50°
- b. 81.6°
- c. 75.6°
- d. 78°

71. In a circle with centre O, PQR is a tangent at the point Q on it. AB is a chord in the circle parallel to the tangent such that $\angle BQR = 70^\circ$. What is the measure of $\angle AQB$? (+2, -0.5)

- a. 35°
- b. 60°
- c. 55°
- d. 40°

72. If $\frac{\tan \theta}{1 - \cot \theta} + \frac{\cot \theta}{1 - \tan \theta} = 1 + k$, then $k =$ _____ . (+2, -0.5)

- a. $\operatorname{cosec} \theta \cdot \sec \theta$
- b. $\cot \theta + \sec \theta$
- c. $\tan \theta + \sec \theta$
- d. $\tan \theta \operatorname{cosec} \theta$

73. In $\triangle ABC$, $AM \perp BC$ and AN is the bisector of $\angle A$. What is the measure of $\angle MAN$, if $\angle B = 55^\circ$ and $\angle C = 35^\circ$? (+2, -0.5)

- a. 5°
- b. 15°
- c. 10°
- d. 12°

74. If $\frac{1}{\operatorname{cosec} \theta - 1} + \frac{1}{\operatorname{cosec} \theta + 1} = 2 \sec \theta$, $0^\circ < \theta < 90^\circ$, then the value of $(\cot \theta + \cos \theta)$ is: (+2, -0.5)

- a. $(\sqrt{2} + 1)/\sqrt{2}$

b. $(1 + \sqrt{2})/2$

c. $1 + \sqrt{2}$

d. $(2 + \sqrt{3})/2$

75. The ratio of the efficiencies of A, B and C is 3 : 5 : 1. Working together, they can complete a piece of work in 5 days. A and B work together for 3 days. The remaining work will be completed by C alone in? (+2, -0.5)

a. 24 days

b. 21 days

c. 18 days

d. 15 days

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English Comprehension

76. **Direction:** 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)

There was still a light on in Mo's room. He often stayed (1)_____ reading late into the night. Meggie had (2)_____ her love of books from her father. When she (3)_____ refuge with him from a bad dream, nothing could lull (4)_____ back to sleep better than Mo's calm breathing (5)_____ her and the sound of the pages turning.

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

- a. for
- b. away
- c. out
- d. up

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

TRANSIENT

- a. celestial
- b. permanent
- c. temporal
- d. stationary

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

The heavy losses in business came like a bolt from the blue.

- a. an ominous warning
- b. an unexpected event
- c. a windfall
- d. a thunderstorm

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

The hunchback was being laughed at by everyone.

- a. Everyone laughed at the hunchback.
- b. Everyone laughs at the hunchback.
- c. Everyone was laughing at the hunchback.
- d. Everyone is laughing at the hunchback.

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

FURY

- a. fright
- b. anger
- c. sorrow
- d. cruelty

81. Select one word substitution for the given words.

(+2, -0.5)

To give up the throne

- a. bequeath
- b. abdicate
- c. consign
- d. usurp

82. In the sentence identify the segment which contains the grammatical error.

(+2, -0.5)

Each of the girls have given an impressive dance performance.

- a. have given
- b. an impressive
- c. Each of the girls
- d. dance performance

83. Select the correctly spelt word.

(+2, -0.5)

- a. concious
- b. complacant
- c. contemptible
- d. corrigible

- 84. Direction:** 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)

There was still a light on in Mo's room. He often stayed (1)_____ reading late into the night. Meggie had (2)_____ her love of books from her father. When she (3)_____ refuge with him from a bad dream, nothing could lull (4)_____ back to sleep better than Mo's calm breathing (5)_____ her and the sound of the pages turning.

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

- a. beside
- b. around
- c. behind
- d. under

- 85. Direction:** 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)

There was still a light on in Mo's room. He often stayed (1)_____ reading late into the night. Meggie had (2)_____ her love of books from her father. When she (3)_____ refuge with him from a bad dream, nothing could lull (4)_____ back to sleep better than Mo's calm breathing (5)_____ her and the sound of the pages turning.

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

- a. his
- b. it

c. them

d. her

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

A. What can we do to avoid anger and provocation?

B. Anger and tension are prevalent due to conflicts arising out of these differences.

C. Society is full of people who think and act differently.

D. We need to develop in ourselves the capacity for conversion to turn negative experiences into positive thinking.

a. ABDC

b. CBAD

c. CADB

d. ACBD

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87. Fill in the blank with the most appropriate word. **(+2, -0.5)**

The committee members were in _____ over the budget for the function.

a. dissent

b. difference

c. deference

d. descent

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

He kicked up a row when he was denied entry to the amusement park.

- a. waited in a queue
- b. cried with sorrow
- c. kicked the guard
- d. created a fuss

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

- a. apearance
- b. attendence
- c. abundance
- d. arrogance

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

Some people believe that discipline means blind submission to authority.

- a. It was believed by some people that discipline meant blind submission to authority.
- b. It has been believed by some people that discipline means blind submission to authority.
- c. It is believed by some people that discipline means blind submission to authority.

- d. It is belief by some people that discipline means blind submission to authority.

91. **Direction:** 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)

There was still a light on in Mo's room. He often stayed (1)_____ reading late into the night. Meggie had (2)_____ her love of books from her father. When she (3)_____ refuge with him from a bad dream, nothing could lull (4)_____ back to sleep better than Mo's calm breathing (5)_____ her and the sound of the pages turning.

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

- a. takes
- b. has taken
- c. took
- d. will take

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

- A. Only the fittest creatures can survive while competing for food.
- B. Why do some species survive and others become extinct?
- C. His answer was that there is ceaseless struggle for life among all creatures.
- D. This was the question that Darwin asked himself.

- a. ABDC

- b. BCDA
 - c. ADCB
 - d. BDCA
-

93. Select one word substitution for the given words. (+2, -0.5)

A trade that is prohibited by law

- a. inapt
 - b. illicit
 - c. incredible
 - d. illusive
-

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

If so many catches had not being dropped, we would have won the match.

- a. won the match
 - b. If so many catches
 - c. we would have
 - d. had not being dropped
-

95. **Direction:** In the following passage some words have been deleted. Fill in the blanks with the help of the alternatives given. Select the most (+2, -0.5)

appropriate option for each blank.

There was still a light on in Mo's room. He often stayed (1)_____ reading late into the night. Meggie had (2)_____ her love of books from her father. When she (3)_____ refuge with him from a bad dream, nothing could lull (4)_____ back to sleep better than Mo's calm breathing (5)_____ her and the sound of the pages turning.

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

- a. gained
- b. inherited
- c. extracted
- d. procured

-
96. 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)

We must endeavour to increase women's access for education also employment.

- a. access in education also employment
- b. access to education and employment
- c. No improvement
- d. excess to education or employment

-
97. Fill in the blank with the most appropriate word. (+2, -0.5)

The old man wished to donate his _____ wealth for the upliftment of the downtrodden.

- a. immense
- b. intense
- c. elusive
- d. eminent

98. 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)

Let us not neglect important aspects of life although pursue momentary pleasures.

- a. through pursued in momentary pleasures.
- b. No improvement
- c. while pursuing momentary pleasures.
- d. by pursued moment pleasures.

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

RETICENT

- a. garrulous
- b. silent
- c. confident

d. extrovert

100. Select the most appropriate antonym of the given word.

(+2, -0.5)

LIBERTY

- a. slavery
- b. freedom
- c. autonomy
- d. reservation

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Answers

1. Answer: c

Explanation:

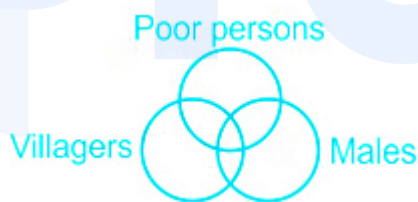
Afghanistan, Indonesia and Nepal are situated in Asia whereas Ireland is situated in Europe.

Hence, Ireland is the odd one among the given options.

2. Answer: a

Explanation:

The least possible Venn diagram is:



Hence, the figure in option 1 is the correct answer.

3. Answer: a

Explanation:

$$27 : 8 \rightarrow 8 \times 3 = 24; 24 + 3 = 27$$

Similarly,

$$12 : 3 \rightarrow 3 \times 3 = 9; 9 + 3 = 12$$

Hence, '12 : 3' is the correct answer.

4. Answer: b

Explanation:

$$343 = 7^3$$

$$1331 = 11^3$$

$$2197 = 13^3$$

But 731 is not a perfect cube.

Hence, 731 is the odd one among the given options.

5. Answer: b

Explanation:

'Judgement' is 'delivered' by the concerned authority.

Similarly, 'rules' are 'implemented' by the concerned authority.

Hence, 'implement' is the correct answer.

6. Answer: b

Explanation:

Mnemonic is used to aid one's memory.

Similarly, sedative is used to induce sleep.

Hence, 'sedative: sleep' is the correct answer.

7. 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

$F + 4 \rightarrow J$; $L - 3 \rightarrow I$; $P + 2 \rightarrow R$; $17 - 1 \rightarrow 16$ (+4; -3; +2; -1)

Similarly,

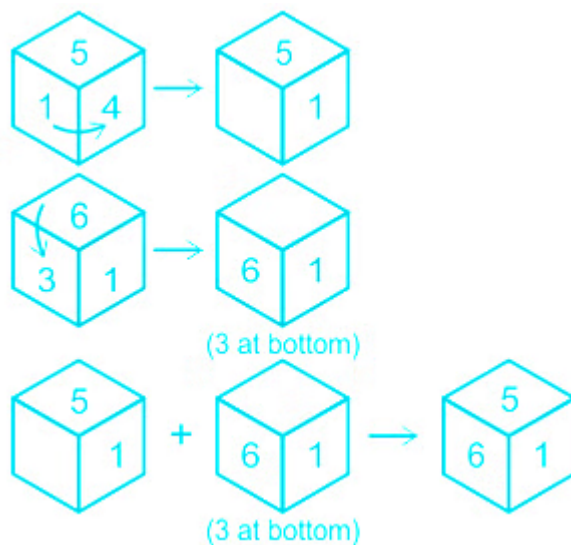
$D + 4 \rightarrow H$; $J - 3 \rightarrow G$; $N + 2 \rightarrow P$; $R - 1 \rightarrow Q$ (+4; -3; +2; -1)

Hence, 'HG PQ' is the correct answer.

8. Answer: d

Explanation:

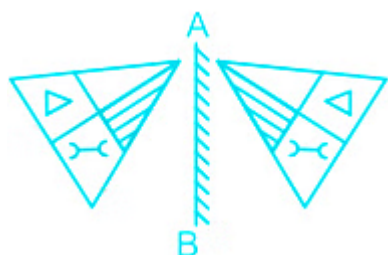
3, 4, 5, and 6 are adjacent to 1. Therefore, 2 is opposite to 1.



Hence, if 3 is at the bottom of the dice, then 5 is at the top.

9. Answer: c

Explanation:

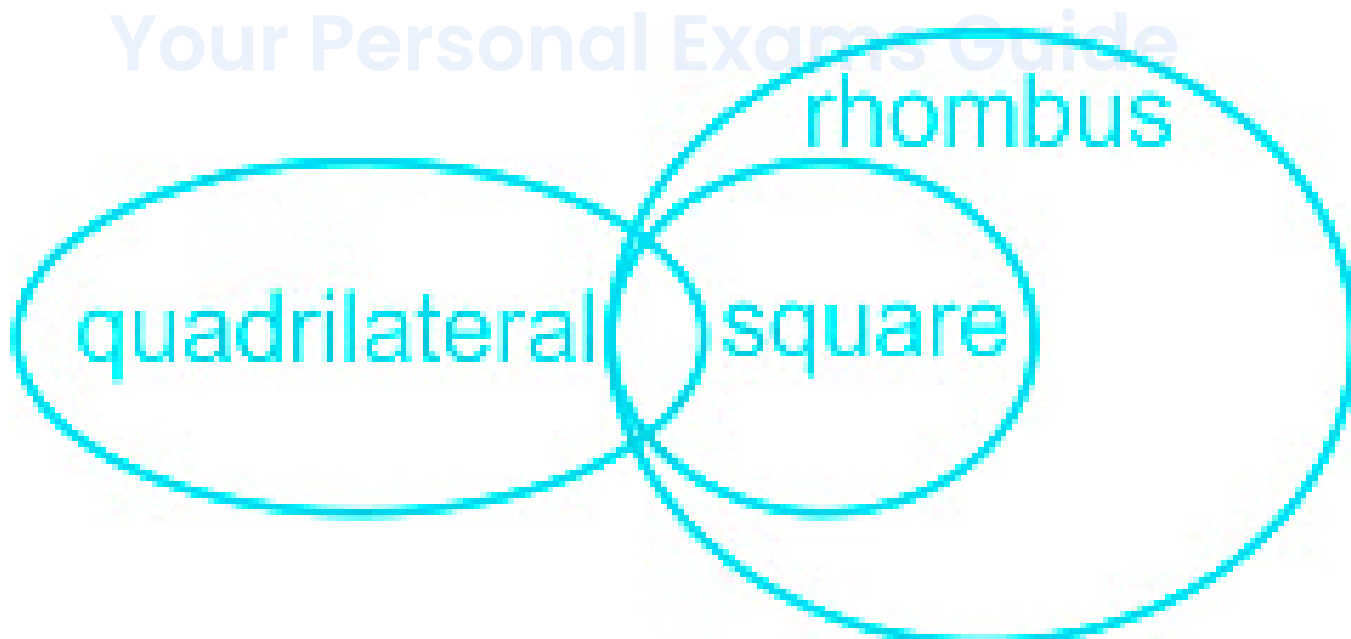


Hence, the figure in option 3 is the correct answer.

10. Answer: a

Explanation:

The least possible Venn diagram is as follows:



Conclusions:

I. No quadrilateral is a rhombus. → False (some quadrilaterals are squares and all squares are rhombuses)

II. All rhombuses are squares. → False (it is possible but not definite)

III. Some quadrilaterals are rhombuses. → True (some quadrilaterals are squares and all squares are rhombuses)

Hence, only conclusion III follows.

11. Answer: d

Explanation:

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

ANGEL: $A + 1 \rightarrow B$; $N + 1 \rightarrow O$; $G + 1 \rightarrow H$; $E + 1 \rightarrow F$; $L + 1 \rightarrow M$

Similarly

SAVAGE: $S + 1 \rightarrow T$; $A + 1 \rightarrow B$; $V + 1 \rightarrow W$; $A + 1 \rightarrow B$; $G + 1 \rightarrow H$; $E + 1 \rightarrow F$

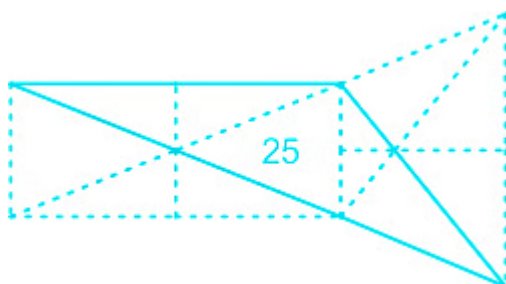
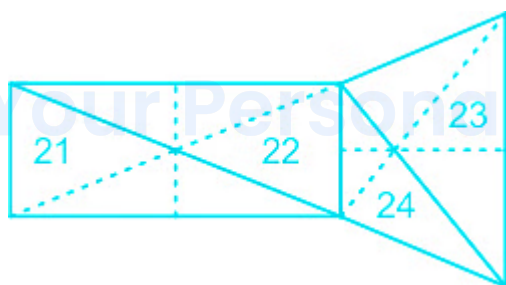
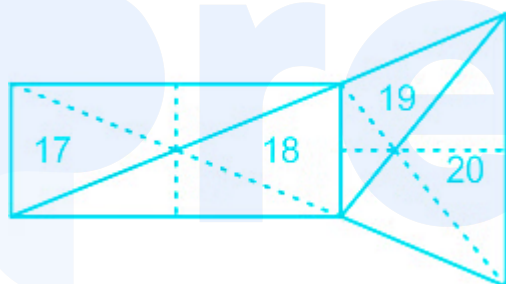
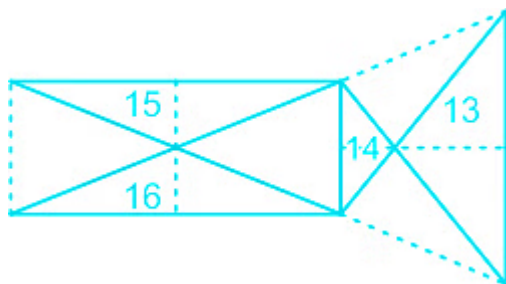
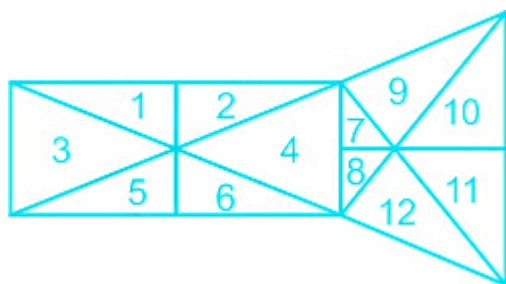
Thus, the code for SAVAGE is ABWBHF.

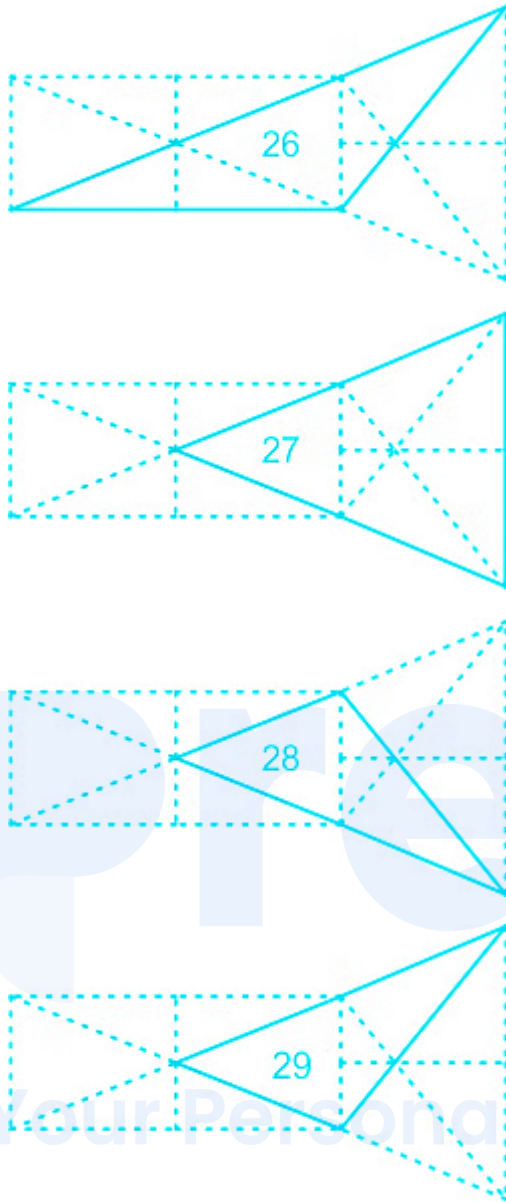
Third alphabet of ABWBHF = W.

Hence, 'W' is the correct answer.

12. Answer: a

Explanation:





Hence, there are 29 triangles in the given figure.

13. Answer: a

Explanation:

The correct logical order is

Sickness → Hospital → Doctor → Medicine Store → Recovery → Home

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

14. Answer: a

Explanation:

Symbol	+	-	*	/
Meaning	-	*	/	+

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

Given: $60 * 10 / 40 + 6 - 5$

After replacing the symbols: $60 / 10 + 40 - 6 * 5$

$$60 / 10 + 40 - 6 * 5$$

$$= 6 + 40 - 6 * 5$$

$$= 6 + 40 - 30$$

$$= 46 - 30$$

$$= 16$$

Hence, 16 is the correct answer.

15. Answer: a

Explanation:

Here, the figure rotates in a clockwise direction. Also, the first and the third symbols in the ends of the figure interchange their positions each time.



Hence, the figure in option 1 is the correct answer.

16. Answer: a

Explanation:

(11, 16, 20): $16 - 11 = 5$; $20 - 16 = 4$.

Similarly,

(15, 20, 24): $20 - 15 = 5$; $24 - 20 = 4$.

Hence, '(15, 20, 24)' is the correct answer.

17. Answer: b

Explanation:

1) cddabbcdcabbbddacb → does not follow any pattern

2) cddabbcddabbcddabb → follows a pattern

3) cdbabbcdcabbdddabb → does not follow a pattern

4 cdcabbcddabbaddabb → does not follow a pattern

The actual series is: cddabb cddabb cddabb

Hence, the missing letters are d, b, d, c, b.

18. Answer: a

Explanation:

$$67 - 42 = 25 \text{ (Alternate Numbers)}$$

$$74 - 33 = 41 \text{ (Alternate Numbers)}$$

Similarly,

$$68 - 52 = 16 \text{ (Alternate Numbers)}$$

Hence, 16 is the correct answer.

19. Answer: a

Explanation:

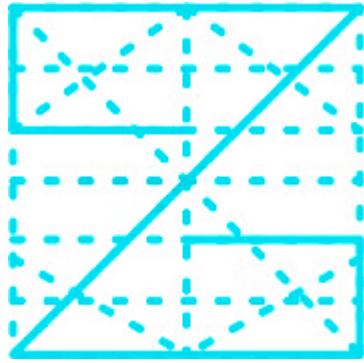
$$\text{Cost price of cycle} = 4140 \times \frac{100}{115} = \text{Rs. } 3,600$$

$$\text{Selling price of cycle to earn 25\% profit} = 3600 + 25\% \text{ of } 3600 = 3600 + 900 = \text{Rs. } 4,500.$$

Hence, Rs. 4,500 is the correct answer.

20. Answer: a

Explanation:



Hence, the figure in option 1 is the correct answer.

21. Answer: b

Explanation:

Tamil Nadu is located in the South of India

Assam is located in the North-east of India.

Punjab is located in the North of India.

But Kerala is located in the South of India.

Hence, Kerala is the odd one among the given options.

22. Answer: d

Explanation:

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

$H + 4 \rightarrow L$; $L + 4 \rightarrow P$

$$D + 4 \rightarrow H; H + 4 \rightarrow L$$

$$P + 4 \rightarrow T; T + 4 \rightarrow X$$

$$L + 4 \rightarrow P; P + 1 \rightarrow Q$$

Hence, 'LPQ' is the odd one among the given options.

23. Answer: b

Explanation:

$$7 + 11 = 18$$

$$11 + 18 = 29$$

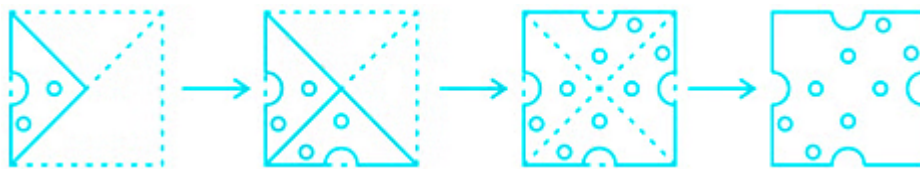
$$18 + 29 = 47$$

$$29 + 47 = 76$$

Hence, 47 is the correct answer.

24. Answer: b

Explanation:



Hence, the figure in option 2 is the correct answer.

25. 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

1) FNMG: $F + 1 \rightarrow G$; $N - 1 \rightarrow M$

2) SKLV: $S + 3 \rightarrow V$; $K + 1 \rightarrow L$

3) BKJC: $B + 1 \rightarrow C$; $K - 1 \rightarrow J$

4) PXWQ: $P + 1 \rightarrow Q$; $X - 1 \rightarrow W$

Hence, 'SKLV' is the correct answer.

26. Answer: b

Explanation:

- Asian Games, also known as Asiad, is a multi-sport event held every four years among athletes from all over Asia.
- The most recent one was held in Palembang and Jakarta, Indonesia from 18 August–2 September 2018.
- The next games will be held from 10 to 25 September 2022 in China.

Games	Rank	Gold	Silver	Bronze	Total
2018 Jakarta	9	15	24	30	69

27. Answer: b

Explanation:

- The base financial year for the calculation of the all India Index of Industrial Production (IIP) is 2011-2012.
- IIP index shows the performance of different industrial sectors of the economy of India.
- It is published on a monthly basis by CSO (Central Statistical Organisation).

28. Answer: d

Explanation:

- The Qutub Minar was named after the Sufi saint Khwaja Qutbuddin Bakhtiyar Kaki.
- The foundation stone for it was laid by Qutub-ud-Din Aibak, while Iltutmish got it completed.
- The monument is a UNESCO World Heritage Site in Delhi.
- It has 5 storeys and is 73 m tall.
- Khwaja Qutbuddin Bakhtiyar Kaki was a Sufi saint of the Chishti order from Delhi.

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29. Answer: d

Explanation:

- Bajrang Punia won gold in the Men's freestyle wrestling 65 kg category at the Dan Kolov 2019 wrestling event.
- Pooja Dhanda won gold in the 59 kg category at the event held in Russia.
- Sakshi Malik claimed a silver medal in the 65 kg category.

30. Answer: b

Explanation:

- The Almatti dam project on the Krishna river was an issue between Karnataka, Andhra Pradesh and Maharashtra.
 - It is a hydroelectric project situated in the Bagalkot district, North Karnataka.
 - It was chosen for the World Bank's Award of Excellence for best utilization of funds for renovation in order to increase the strength of the dam.
-

31. Answer: b

Explanation:

- **Guru Arjan Sahib**, the Fifth Nanak, **conceived the idea of creating a central place of worship for the Sikhs** and he himself designed the architecture of Sri Harmandir Sahib.
 - The planning to excavate the Amrit Sarovar was chalked out by **Guru Amardas Sahib**, the Third Nanak, but it was executed by **Guru Ramdas Sahib** under the supervision of Baba Budha Ji.
 - The land for the site was acquired by the earlier Guru Sahibs on payment or free of cost from the Zamindars (landlords) of native villages.
 - It is an important pilgrimage site for Sikhs.
 - The temple is plated with gold.
 - It is built around a Sarovar which was completed by Guru Ram Das in 1577.
-

32. Answer: a

Explanation:

- **Zoji La** is an important road link between Srinagar on one side and Kargil and Leh on the other side.
- It separates Kashmir valley and Dras valley.

- After Fotu La, it is the second-highest pass on the Srinagar–Leh National Highway.

Place	Major Passes
Jammu Kashmir	Banihal pass, Khardung pass, Imis La pass, Qara Tagh
Sikkim	Nathu La, Jelep La
Uttarakhand	Mana pass, Muling La
Himachal Pradesh	Shipki La
Arunachal Pradesh	Bomdi La, Dihang pass

33. Answer: a

Explanation:

- The Chinese traveller Hiuen Tsang visited India during the reign of Harshavardhana.
- He is also known as the Prince of Pilgrims.
- Harshavardhana ruled North India from 606–647 CE. He was the ruler of the Vardhana dynasty.
- Chandragupta Vikramaditya, Chandragupta I, and Samudragupta were all the rulers of the Gupta dynasty.

34. Answer: c

Explanation:

- Flying Officer Avani Chaturvedi of the Indian Air Force (IAF) created history by becoming the first Indian woman to fly her first solo fighter flight in a Russian made MiG-21 fighter.
- Bhawana Kanth and Mohana Singh will also fly the same flight soon.
- The trio was inducted in the IAF in 2016.

35. Answer: b

Explanation:

- The Speaker decides on the issue related to the disqualification of a Member of Lok Sabha under Tenth Schedule.
- The 10th Schedule of the Indian Constitution is also known as Anti-Defection Law.
- It was inserted by the 52nd Amendment in 1985.
- Defection means to abandon an association or position.

36. Answer: b

Explanation:

- The theory that dinosaurs were driven to extinction by the aftermath of a large asteroid impact on Earth was given by Luis Alvarez.
- This theory is known as the Alvarez Hypothesis.
- Luis Walter Alvarez was an American physicist.
- He was awarded Nobel Prize in Physics in 1968.

Scientists	Nationality	Inventions/Discoveries
Wilhelm Röntgen	German	X-rays
Luis Alvarez	American	Alvarez hypothesis
Henry Moseley	English	Atomic battery
William Crookes	British	Crookes tube

- William Crookes discovered the element thallium .

37. Answer: b

Explanation:

The correct answer is Jhum

★ Key Points

- 'Shifting cultivation is also known as Jhum in north-east India.
- Shifting cultivation is an agricultural practice, wherein, plots of land are temporarily cultivated and then the cultivator abandons it and moves to another plot, leaving it to revert to its natural vegetation.
- Yams, sugarcane, vegetables, etc. are some of the crops grown by this method.

38. Answer: c

Explanation:

The correct answer is 0.

★ Key Points

- The maximum number of nominated members to Lok Sabha is 0.

- These **two members** were nominated by the President of India on the advice of the Government of India.
- In **January 2020**, the Anglo-Indian reserved seats in the Parliament and State Legislatures of India were discontinued by the **126th Constitutional Amendment Bill of 2019, when enacted as the 104th Constitutional Amendment Act, 2019.**

★ Additional Information

- Parliament, also called the Sansad, is the legislature of the Union.
- It has the President, and two houses- the Upper House and the Lower House.
- The Upper House is also called the Rajya Sabha or the Council of States while the Lower House is called the Lok Sabha or the House of the people.
- The current strength of Lok Sabha is 545.

39. Answer: d

Explanation:

<u>Nutrient deficiency</u>	<u>Diseases</u>
Vitamin C	Scurvy
Proteins	Kwashiorkor
Vitamin K	Hemorrhagic disease
<u>Vitamin A</u>	<u>Night blindness</u>

40. Answer: c

Explanation:

- William Thomson codified the first two laws of thermodynamics and deduced that the absolute zero of temperature is -273.15°C .
- He was honoured for this with the naming of the Kelvin temperature scale.

- He was an Irish–Scottish engineer and physicist.

<u>Scientists</u>	<u>Nationality</u>	<u>Inventions/Discoveries</u>
William Crookes	British	Crookes tube
Luis Alvarez	American	Alvarez hypothesis
William Thomson	Irish–Scottish	codified the first two laws of thermodynamics
Robert Hooke	London	Hooke's law

41. Answer: b

Explanation:

- The Lorenz Curve indicates income distribution.
- It is a graphical representation of the distribution of wealth or of income.
- It was developed in 1905 by Max O. Lorenz to represent inequality of the wealth distribution.

42. Answer: a

Explanation:

- In March 2019, the Government of UAE launched the 'Lose to Win' programme to assist overweight employees shed extra kilos and adopt a healthy lifestyle.
- It was launched by its Ministry of Health and Prevention.
- The programme team comprises of health educators and nutritionists from the Ministry.

43. Answer: a

Explanation:

- Brazilian physicist and astronomer Marcelo Gleiser was awarded the 2019 Templeton Prize, worth \$1.4 million, for his work blending science and spirituality.
- He is the first person from Latin America to win this prize.
- The Templeton Prize was started in the year 1972 by a famous investor John Templeton.
- Mother Teresa and Dalai Lama have also received it in the past.

44. Answer: d

Explanation:

- Alessandro Volta was the first person to isolate methane gas.
- He discovered that methane mixed with air could be exploded using an electric spark.
- He is also known for inventing electric battery and discovering contact electricity.

<u>Scientists</u>	<u>Nationality</u>	<u>Discoveries/Inventions</u>
William Thomson	Irish-Scottish	Codified the first two laws of thermodynamics
William Crookes	British	Crookes tube
Louis Pasteur	French	Pasteurization
Alessandro Volta	Italian	Isolated methane gas

45. Answer: c

Explanation:

- Sanchi is famous for outstanding specimen of Buddhist art and architecture, belonging to the period between the 3rd century B.C. and the 12th century A.D.
- It is famous for its Stupa, situated in the Raisen district of Madhya Pradesh.
- The Great Stupa was commissioned by Ashoka in 3rd century BCE.
- It is one of the oldest stone structures of India.

46. Answer: c

Explanation:

- In March 2018, Indian actress Katrina Kaif was named as the new ambassador of the international award-winning non-profit organisation, Educate Girls.
- She will attempt to bring renewed focus to gender equality and girl child education.

47. Answer: d

Explanation:

- The Suri king Sher Shah Suri defeated Humayun to regain his kingdom in 1538.
- He was the founder of Suri Empire.
- He ruled from 1538–1545.
- Humayun was the second Mughal Emperor and son of Babur.
- Sikandar Shah Suri was the 6th ruler of the Suri Empire.

48. Answer: a

Explanation:

- Henry Moseley invented the atomic battery in 1913.
- His battery contained a spherical glass globe with a silver lining.
- The glass sphere had an emitter of a radioactive isotope of radium.
- The emitted charged particles caused a build-up of charge, which effectively created a radioactively powered capacitor from which an electric current could be extracted.

Scientists	Nationality	Inventions/Discoveries
Henry Moseley	English	Atomic battery
Benjamin Franklin	American	Franklin stove
Alessandro Volta	Italian	Electric battery
Louis Pasteur	French	Pasteurisation

49. Answer: c

Explanation:

- Guru Arjan Dev was the fifth of the ten Sikh Gurus.
- Guru Arjan Dev was executed by Jahangir.
- Guru Arjan Dev is known and remembered as the founder of Golden Temple.
- Guru Nanak Dev Ji was the first Guru of Sikhs.
- The 10th and the last Guru was Guru Gobind Singh Ji.
- Guru Angad was second, Guru Hargobind was sixth, and Guru Ramdas was the fourth Guru.

50. Answer: b

Explanation:

- In March 2019, a science teacher from rural Kenya named Peter Tabichi won the prestigious Global Teacher Prize 2019, worth \$1 million, which honours the world's best teacher.
- He is a physics and maths teacher and was awarded for his achievements in a deprived school with a few textbooks and crowded classes.
- He teaches at Keriko Secondary school and gives away 80% of his income for helping poor students.

51. Answer: d

Explanation:

$$\text{Time} = 1\frac{1}{4} \text{ years} = [5/4] \times 12 = 15 \text{ months}$$

$$\text{Rate} = 8\% \text{ annum}$$

If the interest is compounded 5 monthly, then

$$\text{Time} = 15/5 = 3$$

$$\text{Rate} = [8/12] \times 5 = [10/3]\%$$

As we know,

$$\text{Amount} = P [1 + (r/100)]$$

$$A = 8100 \times (31/30) \times (31/30) \times (31/30) = 8937.3$$

$$\therefore \text{Interest} = A - P = 8937.3 - 8100 = 837.3$$

52. Answer: b

Explanation:

We can write, $20\% = 1/5$ and $6.25 = 1/16$

Let the marked price of the article be $100x$.

$$\text{SP of the article after two successive discounts} = 100x \times \left[\frac{4}{5}\right] \times \left[\frac{15}{16}\right] = 75x$$

$\therefore$ Net gain of 20% is made on the CP

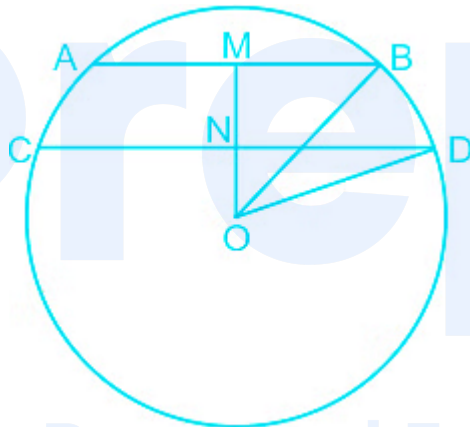
$$\Rightarrow \text{CP of the article} = 75x \times \left(\frac{100}{120}\right) = 62.5x$$

$$\text{MP is more than CP by} = 100x - 62.5x = 37.5x$$

$$\therefore \text{Required percentage} = \left[\frac{37.5}{62.5}\right] \times 100 = 60\%$$

53. Answer: a

Explanation:



$$\Rightarrow AB = 5 \text{ cm, and } CD = 11 \text{ cm}$$

$$\Rightarrow AM = MB = \frac{5}{2} \text{ cm}$$

$$\Rightarrow CN = ND = \frac{11}{2} \text{ cm}$$

Let ON be x cm and radius $OB = OD = r$ cm

In $\triangle OND$

$$\Rightarrow (OD)^2 = (ND)^2 + (ON)^2 \quad \text{[By Pythagoras theorem]}$$

$$\Rightarrow r^2 = \left(\frac{11}{2}\right)^2 + (x)^2$$

$$\Rightarrow r^2 = \left(\frac{121}{4}\right) + x^2 \quad \text{-----(1)}$$

In $\triangle OBM$

$$\Rightarrow (OB)^2 = (OM)^2 + (MB)^2 \quad [\text{By Pythagoras theorem}]$$

$$\Rightarrow r^2 = (3 + x)^2 + (5/2)^2$$

$$\Rightarrow r^2 = 3^2 + x^2 + 6x + [25/4] \quad \text{-----(2)}$$

From equation (1) and equation (2)

$$\Rightarrow [121/4] + x^2 = 9 + x^2 + 6x + [25/4]$$

$$\Rightarrow 6x = [121/4] - [25/4] - 9$$

$$\Rightarrow x = 5/2 \text{ cm}$$

From equation (1)

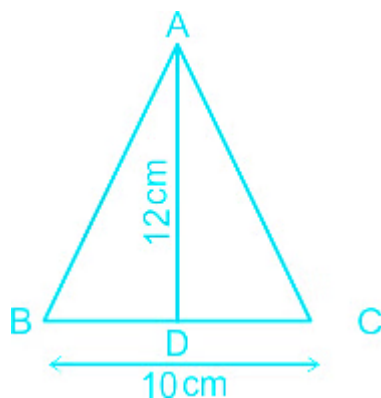
$$\Rightarrow r^2 = [121/4] + [5/2]^2$$

$$\Rightarrow r = \sqrt{(146)/2}$$

$$\Rightarrow \text{Diameter of the circle } 2r = \sqrt{146} \text{ cm}$$

54. Answer: d

Explanation:



In $\triangle ABC$

$$\Rightarrow BC = 10 \text{ and } AD = 12 \text{ cm}$$

As we know, AD is perpendicular to BC.

In right angled triangle ABD

$$\Rightarrow AB^2 = BD^2 + AD^2 \text{ (Pythagoras theorem)}$$

$$\Rightarrow AB^2 = 5^2 + 12^2$$

$$\Rightarrow AB = \sqrt{25 + 144} = \sqrt{169} = 13 \text{ cm}$$

55. Answer: d

Explanation:

$$\text{Ratio of A and B} = 7 : 12 \quad \text{-----(1)}$$

$$\text{Ratio of B and C} = 8 : 5 \quad \text{-----(2)}$$

Multiply by 2 in equation (1) and multiply by 3 in equation (2)

$$\text{Ratio of A and B} = 14 : 24$$

$$\text{Ratio of A and B} = 24 : 15$$

$$\text{Ratio of A, B and C} = 14 : 24 : 15$$

$$\text{Difference of A and C} = 15 - 14 = 1 \text{ unit}$$

$$\Rightarrow 1 \text{ unit represents} = 214$$

$$\Rightarrow A + B + C = 14 + 24 + 15 = 53 \text{ unit}$$

$$53 \text{ unit will represent} = 214 \times 53 = 11,342$$

$$\therefore \text{Value of } (A + B + C) = 11,342$$

56. Answer: a

Explanation:

Total production of type D cars in 2015 and type B cars in 2017 = $56 + 64 = 120$ thousands

total production of cars in 2018 = $65 + 72 + 56 + 68 + 64 = 325$ thousands

Average production of cars in 2018 = $325/5 = 65$ thousands

$\therefore$ Required percentage = $[(120 - 65)/120] \times 100 = 45.83\%$

57. Answer: d

Explanation:

Total production of type A cars in 2016 and type E cars in 2014 = $44 + 46 = 90$ thousands

total production of type C cars during 2014 to 2018 = $54 + 45 + 45 + 50 + 56 = 250$ thousands

Required percentage = $[90/250] \times 100 = 36\%$

58. Answer: a

Explanation:

Inner radius of cylindrical road roller $r = 27$ cm

Outer radius of cylindrical road roller $R = 27 + 9 = 36$ cm

Height of road roller = $1 \text{ m} = 100$ cm

Volume of cylindrical road roller = $\pi(R^2 - r^2)h = \pi(36^2 - 27^2) \times 100 = 56700\pi \text{ cm}^3$

Given that $1 \text{ cm}^3 = 8 \text{ g}$

Suppose, $56700\pi \text{ cm}^3 = X$

$$X = 8 \times 56700\pi = 453600\pi \text{ g}$$

$$453600\pi \text{ g} = 453.6\pi \text{ kg}$$

59. Answer: d

Explanation:

Concept used:

Value of trigonometric functions at different angles

	0°	30°	45°	60°	90°
sin	0	$1/2$	$1/\sqrt{2}$	$\sqrt{3}/2$	1
cos	1	$\sqrt{3}/2$	$1/\sqrt{2}$	$1/2$	0
tan	0	$1/\sqrt{3}$	1	$\sqrt{3}$	∞
cosec	∞	2	$\sqrt{2}$	$2/\sqrt{3}$	1
sec	1	$2/\sqrt{3}$	$\sqrt{2}$	2	∞
cot	∞	$\sqrt{3}$	1	$1/\sqrt{3}$	0

Calculations:

$$\sin^2 30^\circ \cos^2 45^\circ + 4 \tan^2 30^\circ + (\sin^2 90^\circ)/2 + 2 \cos 90^\circ$$

$$\Rightarrow \frac{1}{2^2} \times \frac{1}{(\sqrt{2})^2} + 4 \times \frac{1}{(\sqrt{3})^2} + \frac{1}{2} \times 1 + 2 \times 0$$

$$\Rightarrow \frac{1}{4} \times \frac{1}{2} + \frac{4}{3} + \frac{1}{2} + 0$$

$$\Rightarrow 1/8 + 4/3 + 1/2$$

$$\Rightarrow 47/24$$

∴ The correct answer is 47/24

60. Answer: d

Explanation:

If 10 digit number 67127y76x2 is divisible by 88, then number also divisible by 11 and 8 both.

⇒ 6x2 is divisible by 8 if $x = 7$ or 3

If $x = 7$, then,

⇒ 67127y7672 is divisible by 11 if $y = 0$

If $x = 3$, then

⇒ 67127y7632 is divisible by 11 if $y = 7$

When $x = 7$ and $y = 0$, then

$$\Rightarrow 7x - 2y = 7 \times 7 - 2 \times 0 = 49$$

When $x = 3$, and $y = 7$, then

$$\Rightarrow 7x - 2y = 7 \times 3 - 2 \times 7 = 21 - 14 = 7$$

61. Answer: b

Explanation:

Average of the first three numbers = 12

Sum of the first three numbers = $12 \times 3 = 36$

Let the greatest number among them be x .

According to the question

$$\Rightarrow \left[x - \frac{(36+x)}{4} \times \frac{1}{3} \right] = 19$$

$$\Rightarrow 12x - 36 - x = 19 \times 12$$

$$\Rightarrow x = 24$$

62. Answer: b

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.

$$\Rightarrow 6 - 6 \div 6 \times 6 + (6 \div 6 \text{ of } 6) \times 6 - (3\frac{2}{3} \div \frac{11}{3} \text{ of } \frac{2}{3} \div 5)$$

$$\Rightarrow 6 - 6 \div 6 \times 6 + (6 \div 36) \times 6 - (\frac{11}{3} \div \frac{22}{9} \div 5)$$

$$\Rightarrow 6 - 6 \div 6 \times 6 + \frac{1}{6} \times 6 - (\frac{11}{3} \times \frac{9}{22} \times \frac{1}{5})$$

$$\Rightarrow 6 - 1 \times 6 + 1 - 3/10$$

$$\Rightarrow 1 - 3/10$$

$$\Rightarrow 7/10$$

63. Answer: c

Explanation:

Let the income of Surbhi be $100x$.

Expenditure of Surbhi = $100x \times (75/100) = 75x$

Savings of Surbhi = $100x - 75x = 25x$

Surbhi's new income = $100x \times (120/100) = 120x$

New savings of Surbhi = $25x \times (99/100) = 24.75x$

New Expenditure of Surbhi = $120x - 24.75x = 95.25x$

$\therefore$ Required percentage = $[(95.25x - 75x)/75x] \times 100 = (20.25x/75x) \times 100 = 27\%$

64. Answer: c

Explanation:

Detailed solution:

Let the speed of train A be x km/h.

Speed of train B = $(x - 16)$ km/h

According to the question

$$\Rightarrow \frac{96}{x-16} - \frac{96}{x} = 1$$

$$\Rightarrow \frac{96 \times 16}{x(x-16)} = 1$$

$$\Rightarrow x^2 - 16x = 96 \times 16$$

$$\Rightarrow x^2 - 16x - 1536 = 0$$

$$\Rightarrow (x - 48)(x + 32) = 0$$

$$\Rightarrow x = 48 \text{ and } x = -32 \text{ (not possible)}$$

$\therefore$ Speed of train A = 48 km/h

Short trick

Go through the options

Let the speed of train be 48 km/h.

And speed of train B = $48 - 16 = 32$

$$\Rightarrow (96/32) - (96/48) = 1$$

$$\Rightarrow 3 - 2 = 1$$

$$\Rightarrow 1 = 1 \text{ (Satisfied)}$$

65. Answer: a

Explanation:

Important Trigonometric values

	0°	30°	45°	60°	90°
sin	0	1/2	1/√2	√3/2	1
cos	1	√3/2	1/√2	1/2	0
tan	0	1/√3	1	√3	∞
cosec	∞	2	√2	2/√3	1
sec	1	2/√3	√2	2	∞
cot	∞	√3	1	1/√3	0

Calculation:

$$\Rightarrow \left(\frac{2 \tan 30^\circ}{1 - \tan^2 30^\circ} \right) = \frac{2 \times \frac{1}{\sqrt{3}}}{1 - \frac{1}{3}} = \frac{2}{\sqrt{3}} \times \frac{3}{2}$$

$$\Rightarrow \sqrt{3}$$

$$\therefore \sqrt{3}$$

66. Answer: d

Explanation:

Let the CP of the article be x .

If the person sells the article of 12% Profit, then SP of the article = $x \times (112/100)$

If the person had purchased the article for 12% less, the new CP of the article = $x \times (88/100)$

According to the question

$$\Rightarrow [(112x/100) - 9] - (88x/100) = (27/100) \times (88x/100)$$

$$\Rightarrow 1.12x - 9 - 0.88x = 0.2376x$$

$$\Rightarrow 1.12x - 1.1176x = 9$$

$$\Rightarrow x = 9/0.0024 = 3750$$

Alternate solution:

Let the cost price of the article be Rs. 100.

$\Rightarrow$ Selling price would be Rs. 112.

New cost price (12% less) = Rs 88

New selling price (27% profit) = 127% of 88 = Rs. 111.76

Now, the difference between both selling prices = $112 - 111.76 = \text{Rs. } 0.24$

When the difference is 0.24, CP = Rs. 100

When the difference is 9, CP = $100 \times 9/0.24 = \text{Rs. } 3750$

Hence the cost price of the article is Rs. 3750.

67. Answer: b

Explanation:

Given:

$$\frac{6x}{(2x^2 + 5x - 2)} = 1$$

Formula used:

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

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

Calculation:

$$\frac{6x}{(2x^2 + 5x - 2)} = 1$$

Divide by x

$$\Rightarrow 6 = 2x + 5 - (2/x)$$

$$\Rightarrow x - 1/x = 1/2$$

$$\text{As we know, } (x + 1/x)^2 - (x - 1/x)^2 = 4$$

$$\Rightarrow (x + 1/x)^2 = 4 + 1/4 = 17/4$$

$$\Rightarrow (x + 1/x) = \sqrt{17}/2$$

$$\text{As we know, } (x + 1/x)^3 = x^3 + 1/x^3 + 3(x + 1/x)$$

$$\Rightarrow (17\sqrt{17})/8 = x^3 + 1/x^3 + 3 \times [\sqrt{17}/2]$$

$$\Rightarrow x^3 + 1/x^3 = [17\sqrt{17}/8] - [3\sqrt{17}/2] = 5\sqrt{17}/8$$

$\therefore$ required value is $5\sqrt{17}/8$

68. Answer: d

Explanation:

$$\Rightarrow (8x^3 + 27y^3) \div (2x + 3y)$$

$$\text{As we know, } a^3 + b^3 = (a + b)(a^2 - ab + b^2)$$

$$\Rightarrow [(2x)^3 + (3y)^3] \div (2x + 3y)$$

$$\Rightarrow [(2x + 3y)(4x^2 - 6xy + 9y^2)] \div (2x + 3y)$$

$$\Rightarrow (4x^2 - 6xy + 9y^2)$$

$$\text{Compare on } (Ax^2 + Bxy + Cy^2)$$

$$\Rightarrow A = 4, B = (-6) \text{ and } C = 9$$

$$\Rightarrow 5A + 4B + 3C$$

$$\Rightarrow 5 \times 4 + 4 \times (-6) + 3 \times 9$$

$$\Rightarrow 20 - 24 + 27$$

$$\Rightarrow 23$$

69. Answer: d

Explanation:

Total production of type A cars in 2017 and type C cars in 2014 = $66 + 54 = 120$ thousands

Total production of type B cars in 2014, type C cars in 2017 and type E cars in 2018 = $46 + 50 + 64 = 160$ thousands

$\therefore$ Required ratio = $120 : 160 = 3 : 4$

70. Answer: d

Explanation:

Total production of type D cars = $48 + 56 + 63 + 65 + 68 = 300$ thousands

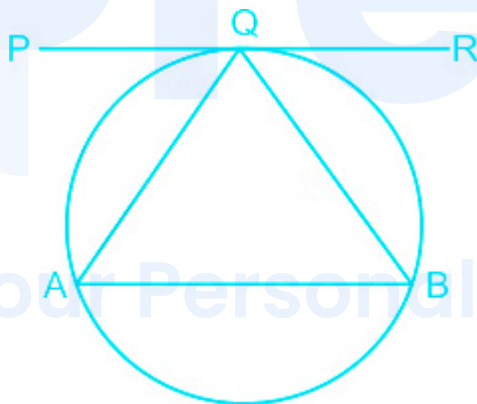
Total production of type D cars in 2017 = 65 thousands

$\Rightarrow 300$ thousand represents = 360°

$\Rightarrow 65$ thousand will represents = $[360^\circ/300] \times 65 = 78^\circ$

71. Answer: d

Explanation:



$\Rightarrow \angle BQR = 70^\circ$ (Given)

$\Rightarrow \angle BQR = \angle QBA = 70^\circ$ (Alternate interior angle)

$\Rightarrow \angle BQR = \angle QAB = 70^\circ$ (Alternate segment theorem)

In $\triangle AQB$

$\Rightarrow \angle AQB + \angle QAB + \angle QBA = 180^\circ$

$\Rightarrow \angle AQB + 70^\circ + 70^\circ = 180^\circ$

$$\Rightarrow \angle AQB = 180^\circ - 140^\circ = 40^\circ$$

72. Answer: a

Explanation:

Detailed Method

$$\Rightarrow \frac{\tan \theta}{1 - \cot \theta} + \frac{\cot \theta}{1 - \tan \theta} = 1 + k$$

$$\Rightarrow \frac{\tan \theta}{1 - \frac{1}{\tan \theta}} + \frac{\frac{1}{\tan \theta}}{1 - \tan \theta} = 1 + k$$

$$\Rightarrow \frac{\tan^2 \theta}{\tan \theta - 1} + \frac{1}{\tan \theta(1 - \tan \theta)} = 1 + k$$

$$\Rightarrow \frac{(\tan^3 \theta - 1)}{\tan \theta(\tan \theta - 1)} = 1 + k$$

$$\Rightarrow \frac{(\tan \theta - 1)(\tan^2 \theta + 1 + \tan \theta)}{\tan \theta(\tan \theta - 1)} = 1 + k$$

$$\Rightarrow \frac{(\tan^2 \theta + 1 + \tan \theta)}{\tan \theta} = 1 + k$$

$$\Rightarrow \tan \theta + \cot \theta + 1 = 1 + k$$

$$\Rightarrow [\sin \theta / \cos \theta] + [\cos \theta / \sin \theta] = k$$

$$\Rightarrow (\sin^2 \theta + \cos^2 \theta) / (\cos \theta \sin \theta) = k$$

$$\Rightarrow 1 / (\cos \theta \sin \theta) = k$$

$$\Rightarrow \operatorname{cosec} \theta \sec \theta = k$$

Short Trick

Put $\theta = 30^\circ$

$$\Rightarrow \frac{\frac{1}{\sqrt{3}}}{1 - \sqrt{3}} + \frac{\sqrt{3}}{1 - \frac{1}{\sqrt{3}}} = 1 + k$$

$$\Rightarrow \frac{1}{\sqrt{3}(1 - \sqrt{3})} + \frac{3}{(\sqrt{3} - 1)} = 1 + k$$

$$\Rightarrow \frac{1}{\sqrt{3}(1 - \sqrt{3})} \times \frac{(1 + \sqrt{3})}{(1 + \sqrt{3})} + \frac{3}{(\sqrt{3} - 1)} \times \frac{(\sqrt{3} + 1)}{(\sqrt{3} + 1)} = 1 + k$$

$$\Rightarrow \frac{3(\sqrt{3}+1)}{2} - \frac{(1+\sqrt{3})}{2\sqrt{3}} = 1 + k$$

$$\Rightarrow \frac{9+3\sqrt{3}-1-\sqrt{3}}{2\sqrt{3}} = 1 + k$$

$$\Rightarrow \frac{4+\sqrt{3}}{\sqrt{3}} - 1 = k$$

$$\Rightarrow k = 4/\sqrt{3}$$

With the help of option 1

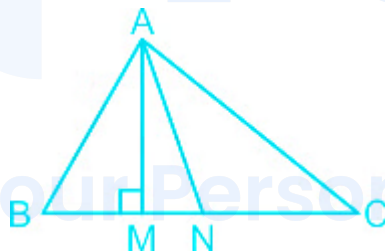
$$\Rightarrow \operatorname{cosec} \theta \sec \theta$$

$$\Rightarrow \operatorname{cosec} 30 \sec 30$$

$$\Rightarrow 2 \times 2/\sqrt{3} = 4/\sqrt{3} \text{ (satisfied)}$$

73. Answer: c

Explanation:



Given, $\angle B = 55^\circ$ & $\angle C = 35^\circ$

As we know,

$$\Rightarrow \angle A + \angle B + \angle C = 180^\circ$$

$$\Rightarrow \angle A = 180^\circ - 55^\circ - 35^\circ = 90^\circ$$

$$\therefore \angle BAN = (\angle A/2) = 90/2 = 45$$

In $\triangle AMB$

$$\Rightarrow \angle BAM + \angle ABM + \angle BMA = 180$$

$$\Rightarrow \angle BAM = 180^\circ - 55^\circ - 90^\circ$$

$$\Rightarrow \angle BAM = 35^\circ$$

Now,

$$\Rightarrow \angle MAN = \angle BAN - \angle BAM = 45^\circ - 35^\circ = 10^\circ$$

Short trick

$$\Rightarrow \angle MAN = (\angle B - \angle C)/2 = (55^\circ - 35^\circ)/2 = 10^\circ$$

74. Answer: a

Explanation:

Calculation:

$$\Rightarrow \frac{1}{\operatorname{cosec}\theta - 1} + \frac{1}{\operatorname{cosec}\theta + 1} = 2 \sec\theta$$

$$\Rightarrow \frac{\operatorname{cosec}\theta + 1 + \operatorname{cosec}\theta - 1}{\operatorname{cosec}^2\theta - 1} = 2\sec\theta$$

$$\Rightarrow \frac{2\operatorname{cosec}\theta}{\cot^2\theta} = 2\sec\theta$$

$$\Rightarrow \frac{\frac{2}{\sin\theta}}{\frac{\cos^2\theta}{\sin^2\theta}} = \frac{2}{\cos\theta}$$

$$\Rightarrow \tan\theta = 1$$

$$\Rightarrow \tan\theta = \tan 45^\circ$$

$$\Rightarrow \theta = 45^\circ$$

$$\Rightarrow \cot\theta + \cos\theta$$

$$\Rightarrow \cot 45^\circ + \cos 45^\circ$$

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

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

★ Shortcut Trick

$$\Rightarrow \theta = 45^\circ$$

$$\Rightarrow [1/(\sqrt{2} - 1)] + [1/(\sqrt{2} + 1)] = 2\sqrt{2}$$

$$\Rightarrow \sqrt{2} + 1 + \sqrt{2} - 1 = 2\sqrt{2}$$

$$\Rightarrow 2\sqrt{2} = 2\sqrt{2} \text{ (Satisfied)}$$

$$\Rightarrow \cot \theta + \cos \theta$$

$$\Rightarrow \cot 45^\circ + \cos 45^\circ$$

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

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

75. **Answer: b**

Explanation:

Efficiency ratio of A, B and C = 3 : 5 : 1

Total work = $(3 + 5 + 1) \times 5 = 9 \times 5 = 45$

Work done by A and B in three days = $(3 + 5) \times 3 = 24$

Remaining work = $45 - 24 = 21$

C will complete the remaining work in = $21/1 = 21$ days

76. **Answer: d**

Explanation:

From the context of the passage, we can understand that the blank is a word that needs to be coupled with the verb 'stay' and it needs to mean '**to stay awake**'.

Out of the given prepositions, only the preposition 'up' fits the context since the phrasal verb '**stay up**' means to stay awake, esp. for a long time.

None of the other prepositions combines with 'stay' to convey this exact meaning.

Hence, **option 4 is correct.**

77. Answer: b

Explanation:

The word '**transient**' means 'temporary or lasting for only a short time'.

The meanings of the the other words are:

- **Celestial** - belonging or relating to heaven
- **Temporal** - relating to time
- **Stationary** - not moving or not intended to be moved
- **Permanent** - lasting for a long time or for ever

We can see that the meaning of transient is completely opposite to the meaning of the word 'permanent'.

Hence, **option 2 is correct.**

78. Answer: b

Explanation:

The idiom '**bolt from the blue**' means 'a sudden, unexpected event'.

For example: *The resignation of the chairman came like **a bolt from the blue**.*

Out of the given options, we can see that option 2 exactly expresses this meaning.

Hence, **option 2 is correct.**

79. Answer: c

Explanation:

The sentence is in passive voice. In active voice, the object 'everyone' must be written before the subject 'hunchback.'

In passive voice:

Object + verb + *by* subject

In active voice :

Subject + verb + object

The tense here is past continuous thus '**was laughing**' will be the correct verb to be used here.

Hence, **option 3 is the correct answer**. All the other options make use of incorrect tenses thereby changing the meaning of the sentences.

80. Answer: b

Explanation:

The word '**fury**' means 'wild or extreme anger'.

For example: *The **fury** of the crowd was directed towards the police.*

It is clear that 'fury' means the same thing as option 2 i.e. 'anger'.

Hence, option 2 is correct.

81. Answer: b

Explanation:

Here are the meanings of the given options:

- **Bequeath**– to arrange for money or property to be given to somebody after your death
- **Abdicate**– to give up a throne, high office, dignity, or function
- **Consign** – to send something to someone
- **Usurp** – to take control of a position of power, especially without having the right to

Out of the given words, we can see that the word '**abdicate**' means exactly what the given words convey.

Here's an example: *In 1918, Kaiser Wilhelm **abdicated** as German emperor.*

Hence, **option 2 is correct.**

82. Answer: a

Explanation:

The word 'each' is always used to refer to a single individual. Even as it is followed by a plural noun such as in the construction 'each of the girls', the **subject of the sentence will remain singular.**

Hence, the verb must also take its singular form.

Therefore, the correct form of the verb should be '**has**', not 'have' and the correct sentence will be: *Each of the girls **has** given an impressive dance performance.*

Hence, the correct answer is **option 1**, since that is the part of the sentence with error.

83. Answer: c

Explanation:

Out of the given words, only '**contemptible**' is spelt correctly. The word is an adjective and describes something that 'receives harsh judgment and deserves it'.

Hence, **option 3 is correct.**

Here are the spellings and meanings of the other words:

- **Conscious** - awake, thinking, and knowing what is happening around you
- **Complacent** - feeling so satisfied with your own abilities or situation that you feel you do not need to try any harder
- **Corrigible** - capable of being set right : reparable

84. Answer: a

Explanation:

The last part of the passage talks about 'Mo's calm breathing' and the sleepy effect it has on Meggie.

Out of the given options, the preposition '**beside**' makes the most sense since it logically describes that Meggie and Mo are sitting next to each other. Meggie couldn't possibly hear Mo's breathing 'around' or 'under' her. Also, it is unlikely that Mo would be sitting 'behind' Meggie.

Therefore, **option 1 is correct.**

85. Answer: d

Explanation:

The first clause of the sentence in which the given blank is located, starts with the words 'when she'.

'She' i.e. **Meggie must also be the person being discussed in the second clause** since no other character is mentioned anywhere in the sentence.

Hence, the correct answer must be the pronoun ' **her** ', referring to Meggie.

Therefore, **option 4 is correct.**

86. Answer: b

Explanation:

The first sentence of the passage should stand independent in meaning and introduce the topic of the passage.

While sentences A, C and D all seem independent, we can see that only sentence C introduces the broader topic that A and D further elaborate upon.

Hence, sentence C is the first sentence.

Sentence B must be next since it directly refers to and expands upon 'these differences' that were being talked about in C ('people who think and act differently').

Now, out of the remaining two sentences, we can see that the next logical sentence should be sentence A, since sentence D is directly in response to the question that is asked by A. Hence, **D must follow A.**

Finally, the last sentence will be D and we can see that it elaborates upon and answers the questions asked in A before it.

Therefore, the order will be CBAD and the correct option is option 2.

87. Answer: a

Explanation:

Here are the meanings of the given words:

- **Dissent** – a strong difference of opinion on a particular subject
- **Difference** – the way in which two or more things which you are comparing are not the same
- **Deference** – respect and politeness
- **Descent** – movement from a higher to a lower level or position

Out of the given words, we can see that '**dissent**' is the most logical answer for the given blank. It conveys the meaning that the committee members could not agree about the budget for the function.

Hence, **option 1 is correct.**

88. Answer: d

Explanation:

The idiom '**kick up a row**' means 'to show great anger about something, especially when this does not seem necessary'; in other words 'to create a fuss'.

For example: *Rahul **kicked up an enormous row** about having to wait just 5 more minutes at the office.*

We can see that option 4 mentions this meaning.

Hence, **option 4 is correct.**

89. Answer: c

Explanation:

Out of the given words, only '**abundance**' is spelt correctly. The word is a noun and means 'an amount that is more than enough'.

Hence, option 2 is correct.

Here are the correct spellings and meanings of the other words:

- **Appearance** – an occasion when someone appears in public
- **Attendance** – the act of being present at a place
- **Arrogance** – unpleasantly proud and behaving as if you are more important than other people

90. Answer: c

Explanation:

In order to convert the given sentence into passive:

- The sentence has two clauses and since the main clause lacks an object, 'it' is used as one at the time of conversion. Therefore, the first clause becomes '**it is believed by some people...**' and the subordinate clause remains the same.
- Note that the tense of the active sentence is **simple present** and therefore the tense of the passive sentence is also in the same tense ('it is believed').

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

91. Answer: c

Explanation:

'**Take refuge**' means '**to find a safe place**'.

All of the events mentioned in the passage are based in the past. Hence, when the passage talks about Meggie taking refuge, this must also be an event from the past.

Out of the given options, only **option 3** is in the past tense.

Hence, **option 3** is correct.

92. Answer: d

Explanation:

The first sentence of the passage should stand independent in meaning and introduce the topic of the passage.

While sentence A and B are both independent, we can see that A seems to be an answer to the question first asked in B.

Hence, **sentence B** is the first sentence.

Sentence D will be next since it directly refers to and expands 'this question' that was asked in the previous sentence.

Now, out of the remaining two sentences, we can see that **the next logical sentence should be sentence C**, since 'his answer' in C is directly in response to 'the question' raised in D.

Finally, **the last sentence will be A** and we can see that it also elaborates and explains the 'answer' mentioned in C before it.

Therefore, the order will be **BDCA** and the correct option is **option 4**.

93. Answer: b

Explanation:

Here are the meanings of the given options:

- **Inapt** – not suitable for the situation
- **Illicit** – illegal or disapproved of by society

- **Incredible** – impossible, or very difficult, to believe
- **Illusive**– dreamlike or not based in reality

Out of the given words, we can see that the word ' **illicit**' means exactly what the given words convey.

Hence, option 2 is correct.

94. Answer: d

Explanation:

The construction 'had being' is **not a grammatical construction**.

The given sentence can be made grammatical by correcting the verb form to denote that something happened in the past. This is represented by the **past perfect tense** i.e. *had + been + past participle of verb*.

Note that the verb 'be' in past perfect constructions is in its past participle form 'been' instead of its present continuous tense 'being'.

The correct sentence will be: *If so many catches had not **been** dropped, we would have won the match.*

Hence, option 4 is correct.

95. Answer: b

Explanation:

Here are the meanings of the given words:

- **gain** – to get something that is useful
- **inherit** – to be born with the same physical or mental characteristics as one of your parents

- **extract** – to remove or take out something
- **procure** – to get something, especially after an effort

We understand from the context of the passage that Mo is a person who loves reading books. We are also introduced to Meggie, who is also fond of books and is Mo's daughter.

Hence, out of all the mentioned words, it makes most sense that Meggie **'inherited'** her love of books from her father, Mo.

Therefore, the correct option is **option 2**.

96. Answer: b

Explanation:

The correct answer is option 2.

The phrase '**access to something**' is used to mean 'the right or opportunity to use something'.

The given sentence clearly talks about women **getting the opportunity** to get educated and employed. The phrase 'access for' in the given sentence, therefore, is incorrect and does not convey the intended meaning.

The word '**also**' is **also not used correctly** in the given sentence. The given context only needs simple conjunction such as 'and' to join the two nouns 'education' and 'employment'.

The word '**excess**' **doesn't fit here** since it means an amount that is more than acceptable, expected, or reasonable. It is therefore not relevant to the context at all.

Hence, only **option 2 is correct**.

97. Answer: a

Explanation:

The meanings of the given options are:

- **Immense** – extremely large in size or degree
- Intense – extreme and forceful or (of a feeling) very strong
- Elusive – difficult to describe, find, achieve, or remember
- Eminent – famous, respected, or important

Out of all the options, we can see that the word '**immense**' fits the context of the sentence best since it conveys the meaning that the old man had a large amount of wealth.

Hence, **option 1 is correct.**

98. Answer: c

Explanation:

In the given sentence, we can see that two **contradictory** ideas are being discussed in two clauses i.e. 'not neglecting important aspects of life' and 'pursuing momentary pleasures'.

'Through' and 'by' are used to mean 'by the means of' and hence, do not make sense in the given context since we cannot achieve one of the ideas by the means of another.

We can also understand that this sentence is framed as an advice to suggest that both of these things should **take place at the same time**.

This means that 'although' is also the incorrect way of putting these two ideas together since it is used to mean 'in spite of something'.

The conjunction '**while**' is the correct word to combine these two ideas and clauses together. It is used to combine two actions that are happening at the same time.

Now, the verb in the second clause will be in its -ing form after the conjunction ' **while** '.

For example in the sentence: *I sprained my ankle **while** I was jogging.*

This second clause can also be contracted by omitting the subject and the 'be' verb.

For example: *I sprained my ankle while jogging.*

Hence, **option 3 is correct.**

99. Answer: b

Explanation:

The correct answer is option 2 i.e. **silent**.

The word ' **reticent** ' is an adjective that describes a person ' inclined to be **silent** or uncommunicative in speech '.

We can see that the word 'silent' is clearly a synonym of the given word.

Hence, **option 2 is correct.**

Here are the meanings of the other given options:

- **Garrulous**- having the habit of talking a lot, especially about things that are not important
- **Confident**- full of conviction
- **Extrovert** - an energetic person who enjoys being with other people

100. Answer: a

Explanation:

The correct answer is **option 1 i.e. slavery.**

The word '**liberty**' means 'the quality or state of being free'.

Here are the meanings of the given words:

- **Slavery**– the condition of being legally owned by someone else.
- **Freedom** – the state of being allowed to do what you want to do.
- **Autonomy** – the quality or state of being self-governing.
- **Reservation**– an arrangement to have something (such as a room, table, or seat) held for your use at a later time.

Out of the given words, we can see that the word '**slavery**' is directly opposite in meaning to the word 'liberty'.

'Freedom' and 'autonomy' are in fact, synonyms of the word 'liberty'.

Hence, **option 1 is correct.**

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