



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 (13-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. Select the term that will come next in the following series.

(+2, -0.5)

M, E, P, H, S,?, V, N

- a. U
- b. K
- c. J
- d. M

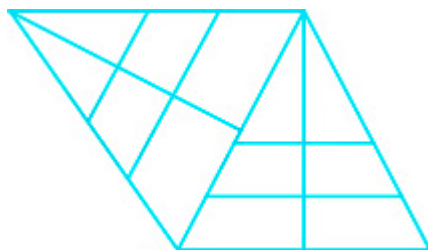
2. 'Heart' is related to 'Circulation' in the same way as 'Kidney' is related to '-----'.

(+2, -0.5)

- a. Energy Production
- b. Excretion
- c. Reproduction
- d. Respiration

3. How many triangles are there in the following figure?

(+2, -0.5)



- a. 22

b. 18

c. 20

d. 16

4. Select the missing number from the given options.

(+2, -0.5)

2	3	5
125	343	216
3	4	?

a. 4

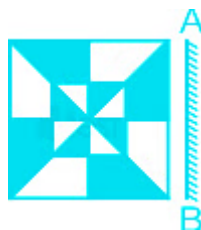
b. 3

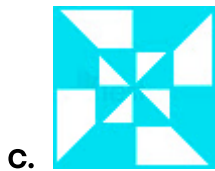
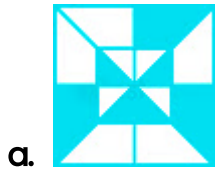
c. 1

d. 2

5. Select the correct mirror image of the given figure when the mirror is placed to the right of the figure.

(+2, -0.5)





6. Arrange the following words in a logical and meaningful order.

(+2, -0.5)

1. Wrist

2. Nails

3. Shoulder

4. Elbow

5. Palm

6. Finger

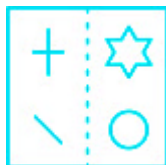
a. 3, 4, 1, 5, 6, 2

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

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

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

7. Given below is a transparent sheet of paper with some patterns drawn on it. (+2, -0.5)
How would the transparent sheet look when it is folded on the dotted line?



8. 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. AEIMQ

b. UYCGK

- c. DHLPT
 - d. RVZDG
-

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

- a. 4 : 27
 - b. 16 : 125
 - c. 9 : 64
 - d. 49 : 218
-

10. The sum of the current ages of Shipra and Malini is 65 years. After 5 years, Shipra's age will be 15 years more than Malini's age. What is Malini's current age? (+2, -0.5)

- a. 15 years
 - b. 20 years
 - c. 30 years
 - d. 25 years
-

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

36	52	86
28	40	12
32	46	?

- a. 53
- b. 51
- c. 43
- d. 49

12. 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. Orange
- b. Violet
- c. Indigo
- d. Silver

13. 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 utensils are spoons.

All bowls are spoons.

Conclusions:

I. No utensil is a bowl.

II. Some utensils are bowls.

III. No spoon is a utensil.

a. Either conclusion I or II follows

b. Only conclusion III follows

c. Conclusions I and III follow

d. Only conclusion I follows

14. Select the term that will come next in the following series.

(+2, -0.5)

DGJ, BDN, ZAR, XXV,

a. VIZ

b. VUZ

c. UUZ

d. VUY

15. Select the option that is related to the third number in the same way as the second number is related to the first number.

(+2, -0.5)

12 : 192 :: 15 : ?

- a. 245
- b. 240
- c. 250
- d. 225

16. 'A +B' means 'A is the sister of B' (+2, -0.5)

'A - B' means 'A is the daughter of B'

'A × B' means 'A is the brother of B'

'A B' means 'A is the husband of B'

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

- a. Paternal uncle
- b. Maternal aunt
- c. Paternal aunt
- d. Maternal uncle

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

Dirty : Filthy

- a. Cute : Child
- b. Perfect : Unique
- c. Shy : Timid

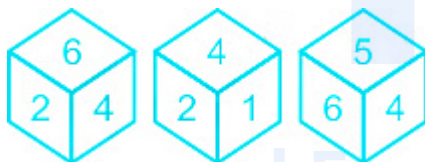
d. Bright : Sunlight

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

$$5 + 16 - 4 \times 14 \div 2 = 59$$

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

19. Three different positions of the same dice are shown here. Which number is on the face opposite the face showing '5'? (+2, -0.5)



- a. 6
- b. 3
- c. 2
- d. 1

20. In a code language, if LAMINATE is coded as 121139141205, then how will SYSTEMIC be coded in the same language? (+2, -0.5)

- a. 1925192051383

b. 1925192051393

c. 1925192051493

d. 1825182051393

21. Select the figure that will come next in the following figure series?

(+2, -0.5)



22. Select the term that will come next in the following series.

(+2, -0.5)

114, 127, 153, 192, 244, ?

- a. 361
- b. 309
- c. 284
- d. 344

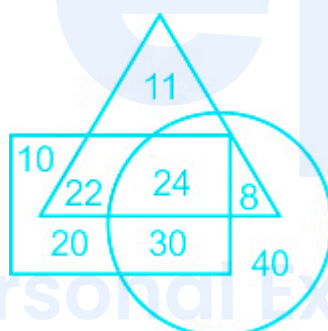
23. Select the figure in which the given figure is embedded. (Rotation is not allowed) (+2, -0.5)



24. In a code language, TROPICAL is written as PORTLACI. How will DISTANCE be written in that language? (+2, -0.5)

- a. ISTSNAEF
- b. TSIDEENA
- c. TSIDEAN
- d. STIDEENA

25. In the Venn diagram shown here, the triangle represents 'students', the circle represents 'diploma holders' and the quadrilateral represents 'graduates'. The numbers given in the diagram represents number of persons of that particular category. (+2, -0.5)



How many students are diploma holders but NOT graduates?

- a. 11
- b. 30
- c. 8
- d. 40

General Awareness

26. Who is the author of the book The Buddha and His Dhamma? (+2, -0.5)

- a. Sarojini Naidu
- b. Rajmohan Gandhi
- c. Jawaharlal Nehru
- d. B R Ambedkar

27. Who among the following was the last Nawab of Awadh? (+2, -0.5)

- a. Wajid Ali Shah
- b. Muhammad Mukim
- c. Saadat Ali Khan
- d. Amjad Ali Khan

28. Which state of India was ruled by the Ahom Dynasty? (+2, -0.5)

- a. Assam
- b. Odisha
- c. Rajasthan
- d. Karnataka

29. Byopa is a traditional headgear of tribes belonging to _____. (+2, -0.5)

- a. Kerala
 - b. Jharkhand
 - c. Goa
 - d. Arunachal Pradesh
-

30. Wind turbines convert _____ energy into mechanical power. (+2, -0.5)

- a. nuclear
 - b. kinetic
 - c. gravitational
 - d. chemical
-

31. Which theory is used to make long-run predictions about exchange rates in a flexible exchange rate system? (+2, -0.5)

- a. Interest Rate Approach
 - b. Portfolio Balance Approach
 - c. Purchasing Power Parity Theory
 - d. Balance of Payment Theory
-

32. Which of the following is the national sport of Bangladesh? (+2, -0.5)

- a. Cricket
- b. Kho Kho

- c. Boxing
 - d. Kabaddi
-

33. What was the theme of World AIDS Day 2018? (+2, -0.5)

- a. Save Yourself
 - b. Know your Status
 - c. Check Yourself
 - d. We Shall Overcome
-

34. Name the comprehensive pension management system developed by the Department of Telecom in December 2018. (+2, -0.5)

- a. ACHARAN
 - b. SAMADHAN
 - c. SAMPANN
 - d. VIGYAN
-

35. In which year was the Battle of Saragarhi fought? (+2, -0.5)

- a. 1867
- b. 1854
- c. 1897
- d. 1878

36. In which part of the body is blood produced? (+2, -0.5)

- a. Brain
- b. Bone Marrow
- c. Lungs
- d. Heart

37. Which of the following is the largest container port of India? (+2, -0.5)

- a. Paradip Port
- b. Chhatrapati Shivaji Port
- c. Ennore Port
- d. Jawaharlal Nehru Port

38. Chepu is a unique cultural symbol of _____. (+2, -0.5)

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

39. Who among the following is/was the longest serving governor of an Indian state? (+2, -0.5)

- a. N D Tiwari
 - b. M M Jacob
 - c. Lakshmi Kant Jha
 - d. Padmaja Naidu
-

40. Which of the following is the highest peak in Sri Lanka? (+2, -0.5)

- a. Mount Pedro
 - b. Bible Rock
 - c. Kirigalpotta
 - d. Hakgala
-

41. With which sport is the term bleeder associated? (+2, -0.5)

- a. Cricket
 - b. Boxing
 - c. Swimming
 - d. Volleyball
-

42. The study of insects is called _____. (+2, -0.5)

- a. Geology
- b. Entomology

- c. Anthropology
 - d. Ornithology
-

43. As of April 2019 who is longest serving chief minister of an Indian state? (+2, -0.5)

- a. Sheila Dixit
 - b. Jayalalitha
 - c. Pawan Chamling
 - d. Jyoti Basu
-

44. How many sessions of the Lok Sabha are normally held in a year? (+2, -0.5)

- a. 5
 - b. 3
 - c. 2
 - d. 7
-

45. Which theory in economics proposes that countries export what they can most efficiently and plentifully produce? (+2, -0.5)

- a. Heckscher-Ohlin Model
- b. Solow-Swan Model
- c. Input-Output Model
- d. Cournot Competition

46. In which medical condition is the eye's optic nerve damaged and the condition worsens over time? (+2, -0.5)

- a. Dry Eye
- b. Age-related Macular Degeneration (AMD)
- c. Glaucoma
- d. Cataract

47. In December 2018, Havelock Island was renamed as _____. (+2, -0.5)

- a. Netaji Subhash Bose Island
- b. Veer Savarkar Island
- c. Swaheed Dweep
- d. Swaraj Dweep

48. Who was the first Russian prime minister to visit independent India? (+2, -0.5)

- a. Vladimir Putin
- b. Mikhail Gorbachev
- c. Boris Yeltsin
- d. Nikolai Bulganin

49. Which was the wettest place in India in 2018 as per the India Meteorological Department (IMD)? (+2, -0.5)

- a. Mahabaleshwar
- b. Ooty
- c. Mawsynram
- d. Cherrapunji

50. Identify the part of brain that controls the maintenance of posture, balance and equilibrium. (+2, -0.5)

- a. Cerebrum
- b. Diencephalon
- c. Brainstem
- d. Cerebellum

Your Personal Exams Guide

Quantitative Aptitude

51. If $\operatorname{cosec} 2\theta = \sec (3\theta - 15^\circ)$, then θ is equal to: (+2, -0.5)

- a. 21°
- b. 20°
- c. 22°
- d. 25°

52. Five cubes, each of edge 3 cm are joined end to end. What is the total surface area of the resulting cuboid, in cm^2 ? (+2, -0.5)

- a. 244
- b. 270
- c. 198
- d. 280

53. If $(5a - 3b) : (4a - 2b) = 2 : 3$, then $a : b$ is equal to: (+2, -0.5)

- a. 5 : 8
- b. 3 : 4
- c. 2 : 3
- d. 5 : 7

54. If $a + b + c = 10$ and $ab + bc + ca = 32$ then $a^3 + b^3 + c^3 - 3abc$ is equal to: (+2, -0.5)

- a. 70
- b. 50
- c. 60
- d. 40

55. $\triangle ABC \sim \triangle NLM$ and $ar(\triangle ABC) : ar(\triangle LMN) = 4 : 9$. If $AB = 6$ cm, $BC = 8$ cm and $AC = 12$ cm, then ML is equal to: (+2, -0.5)

- a. 9 cm
- b. 18 cm
- c. 12 cm
- d. 6 cm

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

- a. 90
- b. 225
- c. 215
- d. 155

57. **Direction:** The table shows the number of cars sold by three showrooms over a period of six years. (+2, -0.5)

Showroom	Year					
	2011	2012	2013	2014	2015	2016
A	500	480	520	620	650	630
B	450	420	530	480	520	400
C	400	450	460	520	540	430

What is the ratio of the total cars sold by showroom B during the years 2014 and 2016 and the total cars sold by showroom C during 2015 and 2016?

- a. 88 : 97
- b. 86 : 97
- c. 85 : 97
- d. 88 : 95

58. The efficiencies of A, B and C are in the ratio of 5 : 3 : 2. Working together, they can complete a task in 21 hours. In how many hours will B alone complete 40% of that task? (+2, -0.5)

- a. 28
- b. 21

c. 24

d. 35

59. The price of sugar is increased by 17%. A person wants to increase his expenditure by 5% only. By approximately what percent should he decrease his consumption? (+2, -0.5)

a. 10.3

b. 9.9

c. 10.7

d. 10.9

60. **Direction:** The table shows the number of cars sold by three showrooms over a period of six years. (+2, -0.5)

Showroom	Year					
	2011	2012	2013	2014	2015	2016
A	500	480	520	620	650	630
B	450	420	530	480	520	400
C	400	450	460	520	540	430

By what percent did the total number of cars sold by all three showrooms decrease during the year 2016, as compared to that in the year 2015 (nearest to one decimal place)?

- a. 14.4%
- b. 14.8%
- c. 14.9%
- d. 14.6%

61. The value of $15.2 + 5.8 \div 2.9 \times 2 - 3.5 \times 2 \div 0.5$ is equal to: (+2, -0.5)

- a. 5.4
- b. 3.2
- c. 5.2
- d. 4.8

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62. **Direction:** The table shows the number of cars sold by three showrooms over a period of six years. (+2, -0.5)

Showroom	Year					
	2011	2012	2013	2014	2015	2016
A	500	480	520	620	650	630
B	450	420	530	480	520	400
C	400	450	460	520	540	430

If the total number of cars sold by all three showrooms over the years is represented as a pie-chart, what is the central angle of the sector representing the total number of cars sold in the year 2013 (to the nearest whole number)?

- a. 56°
- b. 60°
- c. 58°
- d. 62°

63. In a class of 50 students, 40% are girls. The average marks of the whole class are 64.4 and the average of the boy's marks is 62. What is the average mark of the girls? (+2, -0.5)
- a. 68
 - b. 67

c. 66.8

d. 66.4

64. What is the value of x so that the seven digit number $8439x53$ is divisible by 99? (+2, -0.5)

a. 3

b. 6

c. 9

d. 4

65. **Direction:** The table shows the number of cars sold by three showrooms over a period of six years. (+2, -0.5)

Showroom	Year					
	2011	2012	2013	2014	2015	2016
A	500	480	520	620	650	630
B	450	420	530	480	520	400
C	400	450	460	520	540	430

What is the average number of cars sold by showroom A over the given six years (nearest to one decimal place?)

- a. 586.7
- b. 592.7
- c. 566.7
- d. 594.7

66. In a circle of radius 17 cm, a chord is at a distance of 8 cm from the centre of the circle. What is the length of the chord? (+2, -0.5)

- a. 30 cm
- b. 15 cm
- c. 20 cm
- d. 25 cm

67. In a circle with centre O, an arc ABC subtends an angle of 110° at the centre of the circle. The chord AB is produced to a point P. Then $\angle CBP$ is equal to: (+2, -0.5)

- a. 60°
 - b. 55°
 - c. 65°
 - d. 70°
-

68. The value of $\sin^2 32^\circ + \sin^2 58^\circ - \sin 30^\circ + \sec^2 60^\circ$ is equal to: (+2, -0.5)

- a. 5.5
- b. 4
- c. 4.5
- d. 3.5

69. In $\triangle ABC$, P is a point on BC such that $BP : PC = 4 : 11$. If Q is the midpoint of BP, then $\text{ar}(\triangle ABQ) : \text{ar}(\triangle ABC)$ is equal to: (+2, -0.5)

- a. 2 : 11
- b. 3 : 13
- c. 2 : 15
- d. 2 : 13

70. If $2\sin\theta = 5\cos\theta$, then $\frac{\sin\theta + \cos\theta}{\sin\theta - \cos\theta}$ is equal to (+2, -0.5)

- a. $\frac{2}{3}$
- b. $\frac{5}{3}$
- c. $\frac{9}{5}$
- d. $\frac{7}{3}$

71. An article is sold for Rs. 288 after successive discounts of 25% and x%. If the marked price of the article is Rs. 480, what is the value of x? (+2, -0.5)

- a. 20
 - b. 15
 - c. 18
 - d. 16
-

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

- a. 14
 - b. 16
 - c. 12
 - d. 18
-

73. Walking at $\frac{7}{9}$ of his usual speed, a person reaches his office 10 minutes later than the usual time. His usual time in minutes is: (+2, -0.5)

- a. 30
 - b. 27
 - c. 35
 - d. 42
-

74. The difference between compound interest and simple interest on x at 15% per annum for 2 years is 9. What is the value of x? (+2, -0.5)

- a. 400

b. 500

c. 450

d. 600

75. Two articles are sold for Rs. 962 each. On one, the seller gains 30% and on the other he loses 26%. What is his overall gain or loss percentage, nearest to one decimal place? (+2, -0.5)

a. 6.0% loss

b. 5.7% loss

c. 5.7% gain

d. 6.0% gain

Prepp

Your Personal Exams Guide

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)

Marine Conservation Society is hosting the Anjarle Turtle festival 2019, aiming to make more people aware about Olive Ridley turtles. The sea (1) _____ get their names from their olivecoloured (2) _____. They grow to about two feet in (3) _____ and reportedly mate at around 1000 kilometers from the Anjarle (4) _____. These turtles come to the beach to lay (5) _____.

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

- a. beach
- b. festival
- c. sand
- d. sea

Your Personal Exams Guide

77. 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)

Marine Conservation Society is hosting the Anjarle Turtle festival 2019, aiming to make more people aware about Olive Ridley turtles. The sea (1) _____ get their names from their olivecoloured (2) _____. They grow to about two feet in (3) _____ and reportedly mate at around 1000 kilometers from the Anjarle (4) _____. These turtles come to the beach to lay (5) _____.

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

- a. shells
 - b. young ones
 - c. eggs
 - d. pebbles
-

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

A. It is a popular tourist spot for watching the sunset and sunrise over the ocean.

B. Kanyakumari is a coastal town in the State of Tamil Nadu on India's southern tip.

C. It is also a noted pilgrimage site, thanks to its Bagvathi Amman Temple and Our Lady of Ransom Church, a centre of Indian Catholicism.

D. Jutting out into the Laccadive sea, the town was known as Cape Comorin during the British rule.

- a. BDAC
 - b. DCAB
 - c. ACDB
 - d. BCDA
-

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

PUBLIC

- a. common

- b. restricted
- c. private
- d. ready

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

The invigilator did not know that the two boys were exchanging notes under his nose.

- a. rolled into small pellets
- b. written in small letters
- c. right in front of him
- d. wrapped in handkerchiefs

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

HOSTILITY

- a. enmity
- b. sympathy
- c. friendship
- d. goodwill

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

Let us have all the regulations in black and white.

- a. painted in colour
- b. in writing
- c. written on the black- board
- d. printed in coloured ink

83. Select the most appropriate option to fill in the blank.

(+2, -0.5)

Today, _____ society is literally poisoning the earth with acid rain.

- a. industrialized
- b. cosmopolitan
- c. growing
- d. developing

84. 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)

Marine Conservation Society is hosting the Anjarle Turtle festival 2019, aiming to make more people aware about Olive Ridley turtles. The sea (1) _____ get their names from their olivecoloured (2) _____. They grow to about two feet in (3) _____ and reportedly mate at around 1000 kilometers from the Anjarle (4) _____. These turtles come to the beach to lay (5) _____.

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

- a. snakes

- b. turtles
 - c. animal
 - d. fish
-

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

You may left the class when you have completed the test.

- a. You may left
 - b. when you have
 - c. completed the test
 - d. the class
-

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

They will put away their woollens after the festival of Holi.

- a. Their woollens are being put away after the festival of Holi.
 - b. Their woollens will be put away by them after the festival of Holi.
 - c. Their woollens have been put away after the festival of Holi by them
 - d. Their woollens are put away after the festival of Holi.
-

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

INSULT

- a. offer

- b. apply
 - c. offend
 - d. remove
-

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

PROGRESSIVE

- a. repeated
 - b. moving
 - c. conservative
 - d. aristocratic
-

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

- a. scissors
 - b. terrible
 - c. clettering
 - d. sweatter
-

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

impossible to satisfy

- a. satisfiable
- b. contented

- c. insatiable
 - d. satisfactory
-

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

Rudra was laughed at by all his friends when he wore his socks inside-out.

- a. All his friends laughed at Rudra when he wore his socks inside-out.
 - b. When Rudra wore his socks inside-out all his friends were laughing at him.
 - c. All his friends will be laughing at Rudra for wearing his socks inside-out.
 - d. If Rudra wears his socks inside-out all his friends will laugh at him.
-

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

liable to break easily

- a. brittle
 - b. soft
 - c. bent
 - d. thin
-

93. 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)

For how long you are living in this city?

- a. No improvement

- b. are you been living
- c. have you been living
- d. are you live

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

- A. He would sit at the edge of her mother's bed and stare into her crib.
- B. Arvind bumbled down the interminable corridor, suddenly reminded of his daughter in the days after she was born.
- C. As a proportion to the fragment of life his daughter had seen, an hour was a vast sprawling space.
- D. Some days he would imagine the world through her eyes and he would feel in his heart how long an hour actually was.

- a. DACB
- b. BCDA
- c. ABCD
- d. BADC

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

I am quite satisfied that I have not been _ _ _ _ _ in doing whatever was needful for building up their character.

- a. affectionate
- b. caring

- c. devoted
- d. negligent

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

- a. mantion
- b. mentoin
- c. mention
- d. mension

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)

Marine Conservation Society is hosting the Anjarle Turtle festival 2019, aiming to make more people aware about Olive Ridley turtles. The sea (1) _____ get their names from their olivecoloured (2) _____. They grow to about two feet in (3) _____ and reportedly mate at around 1000 kilometers from the Anjarle (4) _____. These turtles come to the beach to lay (5) _____.

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

- a. feathers
- b. wings
- c. beaks
- d. shells

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

Although there are more than a hundred known elements, they rarely occur at a pure state.

- a. more than a hundred
- b. Although there are
- c. at a pure state
- d. they rarely occur

99. 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)

Marine Conservation Society is hosting the Anjarle Turtle festival 2019, aiming to make more people aware about Olive Ridley turtles. The sea (1) _____ get their names from their olivecoloured (2) _____. They grow to about two feet in (3) _____ and reportedly mate at around 1000 kilometers from the Anjarle (4) _____. These turtles come to the beach to lay (5) _____.

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

- a. weight
- b. depth
- c. length
- d. growth

100. 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)

The female ostrich guards the nest at night and the male guard it in the day.

- a. guards it during the day.
- b. guard it during the day.
- c. No improvement
- d. guarding it during day.

Prepp

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Answers

1. Answer: b

Explanation:

The given series is a combination of 2 series,

I) M, P, S, V

$$M + 3 = P;$$

$$P + 3 = S;$$

$$S + 3 = V;$$

II) E, H, ?, N

$$E + 3 = H;$$

$$H + 3 = K;$$

$$K + 3 = N;$$

Hence, "K" is the missing term in the given series.

2. Answer: b

Explanation:

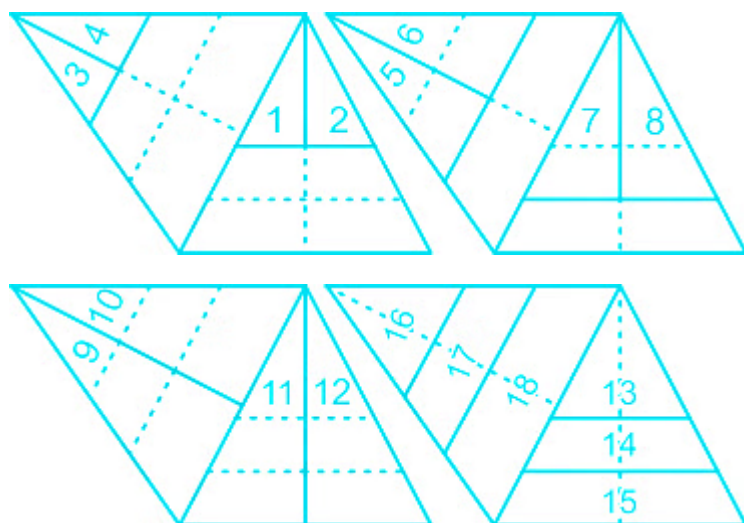
The main function of heart is to circulate the blood.

Similarly, the main function of the kidney is Excretion of waste products from the body.

Hence, "Excretion" is the correct answer.

3. Answer: b

Explanation:



Hence, "18" is the correct answer.

4. Answer: c

Explanation:

Taking 1st column,

1st row + 3rd row $\Rightarrow 2 + 3 = 5 \rightarrow (5)^3 = 125$ (which is the 2nd row)

Similarly for 2nd column,

1st row + 3rd row $\Rightarrow 3 + 4 = 7 \rightarrow (7)^3 = 343$ (which is the 2nd row)

For 3rd column,

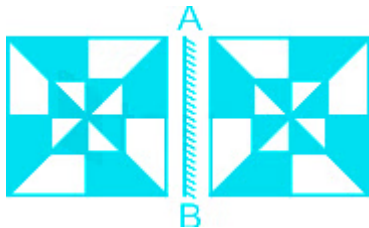
1st row + 3rd row $\Rightarrow 5 + 1 = 6 \rightarrow (6)^3 = 216$ (which is the 2nd row)

Hence, "1" is the correct answer.

5. Answer: c

Explanation:

The image is flipped horizontally



Hence, "Option 3" is the correct answer.

6. Answer: a

Explanation:

Here, the given body parts are to be arranged from top to bottom starting from Shoulder.

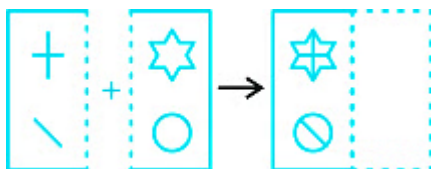
So, the arrangement will be:

Shoulder(3) > Elbow(4) > Wrist(1) > Palm(5) > Fingers(6) > Nails(2)

Hence, the correct meaningful order will be 3, 4, 1, 5, 6, 2.

7. Answer: d

Explanation:



Hence, the above figure will be the final figure.

8. Answer: d

Explanation:

Checking each option,

1) AEIMQ →

A $\xrightarrow{+4}$ E $\xrightarrow{+4}$ I $\xrightarrow{+4}$ M $\xrightarrow{+4}$ Q

2) UYCGK →

U $\xrightarrow{+4}$ Y $\xrightarrow{+4}$ C $\xrightarrow{+4}$ G $\xrightarrow{+4}$ K

3) DHLPT →

D $\xrightarrow{+4}$ H $\xrightarrow{+4}$ L $\xrightarrow{+4}$ P $\xrightarrow{+4}$ T

4) RVZDG →

R $\xrightarrow{+4}$ V $\xrightarrow{+4}$ Z $\xrightarrow{+4}$ D $\xrightarrow{+3}$ G

Hence, "RVZDG" is the odd one among the following options.

9. Answer: d

Explanation:

The pattern follow here is,

$$x^2: (x + 1)^3;$$

Checking each option

$$1) X = 2,$$

$$2^2: (2 + 1)^3 \rightarrow 4 : 27;$$

$$2) X = 4,$$

$$4^2: (4 + 1)^3 \rightarrow 16 : 125;$$

$$3) X = 3,$$

$$3^2: (3 + 1)^3 \rightarrow 9 : 64;$$

$$4) X = 7,$$

$$7^2: (7 + 1)^3 \rightarrow 49 : 512,$$

Hence, "49:218" is odd one among the given options.

10. Answer: d

Explanation:

Let the age of Shipra be "x" and age of Malini be "y".

As per statement given in question:

$$x + y = 65 \quad \text{-----(i) and}$$

After 5 years,

$$\text{Shipra} = x + 5$$

$$\text{Malini} = y + 5$$

$$\rightarrow x + 5 = (y + 5) + 15$$

$$\rightarrow x = y + 15 \quad \text{-----(ii)}$$

From both the equation (i) and (ii)

$$y + 15 + y = 65,$$

$$2y = 50,$$

$$y = 25,$$

$$\text{and } x = 40$$

Hence, Malini's current age is "25 years"

11. Answer: d

Explanation:

In column 1,

$$(1^{\text{st}} \text{ row} + 2^{\text{nd}} \text{ row}) / 2 = 3^{\text{rd}} \text{ row},$$

$$36 + 28 = 64 / 2 = 32,$$

Similarly in column 2,

$$52 + 40 = 92 / 2 = 46,$$

For 3rd column,

$$86 + 12 = 98 / 2 = \mathbf{49},$$

Hence, "49" is the correct answer.

12. Answer: d

Explanation:

A rainbow is made of seven colors viz: Violet, Indigo, Blue, Green, Yellow, Orange and Red.

All the colors given in options are present in Rainbow except Silver.

Hence, Silver is the odd word among the given options.

13. Answer: a

Explanation:

Statement I: All utensils are spoons

Statement II: All bowls are spoons



Conclusion I: No utensil is a bowl $\rightarrow$ False (It is possible but not definite)

Conclusion II: Some utensils are bowls $\rightarrow$ False (It is possible but not definite)

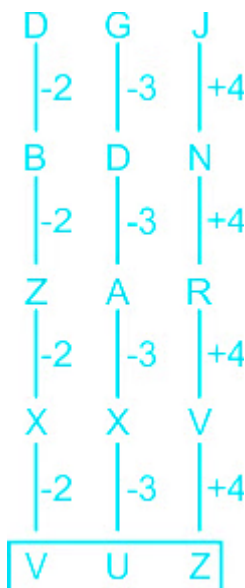
Conclusion III: No spoon is a utensil $\rightarrow$ False.

Here, Conclusion I and II makes complementary pairs.

Hence, "Either conclusion I or II follows" is the correct answer.

14. Answer: b

Explanation:



Hence, "VUZ" is the correct answer.

15. Answer: b

Explanation:

Here in 12 : 192,

$12 : (12 \times 16) \rightarrow 12 : 192,$

Similarly in 15 : ?

$15 : (15 \times 16) \rightarrow 15 : 240,$

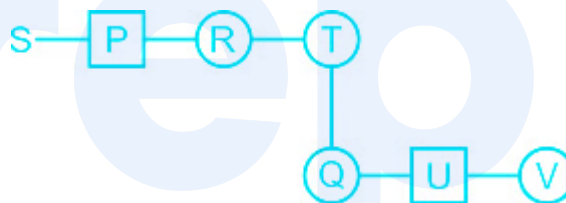
Hence, "240" is the correct answer.

16. Answer: d

Explanation:

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

According to the question, $V + U \times Q - T + R + P \times S$ can be decoded as V is sister of U, U is brother of Q, Q is daughter of T, T is sister of R, R is sister of P, P is brother of S.



Hence from the above arrangement, P is maternal uncle of V.

17. Answer: c

Explanation:

Dirty and Filthy both are synonym. Similarly, Shy and Timid are synonym. Hence, Shy and Timid is the related pair.

18. Answer: a

Explanation:

Given expression: $- 5 + 16 - 4 \times 14 \div 2 = 59$

1) Interchanging $\div$ and $-$

Equation will become :- $- 5 + 16 \div 4 \times 14 - 2$

$$= 5 + 4 \times 14 - 2$$

$$= 5 + 56 - 2$$

$$= 59$$

2) Interchanging $\times$ and $+$

Equation will become :- $5 \times 16 - 4 + 14 \div 2$

$$= 80 - 4 + 7$$

$$\neq 59$$

3) Interchanging $+$ and $-$

Equation will become :- $5 - 16 + 4 \times 14 \div 2$

$$= 5 - 16 + 28$$

$$\neq 59$$

4) Interchanging $\div$ and $\times$

Equation will become :- $5 + 16 - 4 \div 14 \times 2$

$$= 5 + 16 - 0.57$$

$$\neq 59$$

Thus, interchanging " $\div$ " and " $-$ " we get the correct answer.

19. Answer: c

Explanation:

The number 4 appears in 3 dice position i.e. 1st 2nd and 3rd from which it is evident that 6, 2, 1, 5 are adjacent to it and cannot be opposite to number 4. From this we can conclude that number 4 faces number 3.

Similarly Number 6 appears in 2 dice position i.e. 1st and 3rd from which it is evident that 2, 4 and 5 are adjacent to it and cannot be opposite to number 6. Also, number 4 faces number 3. From this we can conclude that number 6 faces number 1.

From the above conclusions we can say that Number 5 will be facing number 2.

Hence, "2" is the correct answer.

20. Answer: b

Explanation:

According to given coding language,

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

L	A	M	I	N	A	T	E
12	1	13	9	14	1	20	5

Similarly for SYSTEMIC,

S	Y	S	T	E	M	I	C
19	25	19	20	5	13	9	3

Hence, "SYSTEMIC" can be coded as "1925192051393".

21. Answer: a

Explanation:

In the above series diamond is positioned at the sides (on the outer side) of the pentagon and is moving anti clockwise. Line is positioned at the side of the Pentagon (on the inner side) and is moving in clockwise direction.

Diamond is moving positions in increasing order consecutively i.e. in +1 in figure 2, +2 in figure three and +3 in figure 4. Hence, in figure 5 (missing figure) they will move + 4.

Line is shifting one position at a time.



Hence, the above figure is the correct answer.

22. Answer: b

Explanation:

The pattern follow here is,

$$114 + 13 = 127;$$

$$127 + 26 = 153;$$

$$153 + 39 = 192;$$

$$192 + 52 = 244;$$

$$244 + 65 = \mathbf{309};$$

Hence, "309" is the next term of the given series.

23. Answer: a

Explanation:

If we look closely, figure is hidden in option figure 1 as shown below.



Hence, "Option 1" is the correct answer.

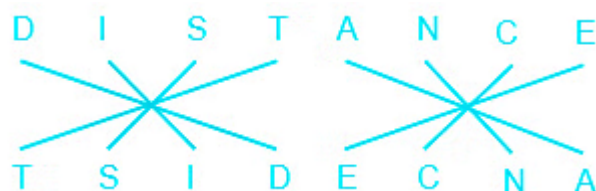
24. Answer: b

Explanation:

The pattern follow here is,



Similarly for DISTANCE,



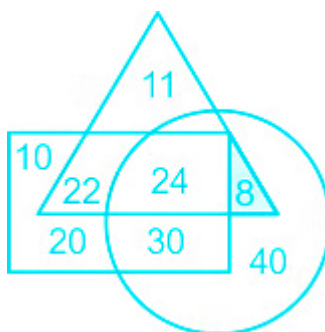
Hence, DISTANCE can be coded as "TSIDECNA".

25. Answer: c

Explanation:

According to the question, the triangle represents 'students', the circle represents 'diploma holders' and the quadrilateral represents 'graduates'.

Students which are diploma holders but not graduate i.e. number which represents triangle and circle but not quadrilateral, which is number "8".



26. Answer: d

Explanation:

- Buddha and His Dhamma was authored by **B R Ambedkar**.
- B R Ambedkar or Bhimrao Ramji Ambedkar was a famous Indian social reformer.
- He also inspired the Dalit Movement in India.
- Buddha and His Dhamma were one of his last works published in 1957 after his death which took place on 6 December 1956.

27. Answer: a

Explanation:

- The last Nawab of Awadh was **Wajid Ali Shah**.
- He was the tenth Nawab and held his title for only 9 years from 1847 to 1856.
- His kingdom was annexed by the British and he was sent to exile in Kolkata.
- The Nawab is famously known to be a patron of the arts and revived Kathak dance to its present glory.

28. Answer: a

Explanation:

- The Ahom dynasty ruled over present-day **Assam**.
- The dynasty ruled over Assam for almost 6 centuries from 1228 to 1826.
- The founder of the Ahom dynasty was Sukhapaa who came from Mong Mao, Mong Mao was a small medieval state located on present-day Myanmar-China border.
- The rule of the dynasty ended in the Burmese invasion of Assam in 1826.

29. Answer: d

Explanation:

- The Byopa is traditionally worn by **tribals of Arunachal Pradesh**
- It is mainly worn by people of the Nyishi tribe
- The cap is mainly made of cane and is a warriors headgear to protect the head in war

30. Answer: b

Explanation:

- Wind turbines convert kinetic energy into mechanical power.
- The kinetic energy is basically the energy of the moving wind.
- This energy is imparted to the blades of the turbine.
- The blades in turn, rotate a shaft which is connected to a generator that generates electricity.

31. Answer: c

Explanation:

- **The Purchasing Power Parity (PPP) Theory** can make long term predictions about exchange rates in a flexible exchange rate system.
- Basically PPP compares the economic productivity and standards of living of countries to predict exchange rates between different currencies.
- A simple formula for PPP is $S = (P_1 / P_2)$ where
 - S is the exchange rate between two currencies 1 and 2
 - P_1 is price of good X in country 1
 - P_2 is price of good X in country 2

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- For an accurate prediction a range of goods should be compared with the PPP theory.
-

32. Answer: d

Explanation:

- Kabaddi is the national sport of Bangladesh.
 - Despite that, cricket and football are much more popular in the country.
 - Kabaddi is also known as Ha-Du-Du in the country.
 - It is said that Kabaddi was decided as the national sport by the leaders of the country to break away from the colonial roots as both cricket and football are very famous British sports.
-

33. Answer: b

Explanation:

- The theme of World AIDS Day 2018 was 'Know Your Status'.
 - The theme was set to bring awareness and urge people to check for the disease.
 - AIDS day is celebrated annually on 1st December.
 - 2018 marked the 30th anniversary of World AIDS day.
-

34. Answer: c

Explanation:

- The pension management system developed by Department of Telecom is known as SAMPANN.
- SAMPANN stands for System for Accounting and Management of Pension.

- It is created by the Department of Telecom to allow senior citizens easier access to their pensions.
 - The system was announced in public by Prime Minister Modi on 29th December 2018 in Varanasi.
-

35. Answer: c

Explanation:

- The famous Battle of Saragarhi was fought on **12 September of 1897**.
 - The battle took place in Tirah which is in present-day Pakistan.
 - It was fought between The British Indian Empire and Afghan tribesmen of the area.
 - Only 21 Sikh soldiers fought for the British against about 10,000 tribesmen.
 - The Sikh soldiers lost but fought till their deaths as a last stand.
-

36. Answer: b

Explanation:

- Most constituents of blood are produced in the **bone marrow** of human beings.
 - Bone marrow is a type of spongy tissue that is present inside some bones of the body such as that of the hip.
 - The red blood cells are made from stem cells in the bone marrow.
 - The bone marrow produces about half a liter worth of red blood cells every week.
 - It also produces 60–70% of the white blood cells.
-

37. Answer: d

Explanation:

- The **Jawaharlal Nehru Port** is the largest container port in India.
 - It is located in Navi Mumbai.
 - The port alone handles about 40% of the country's ocean cargo.
 - The port serves as the major cargo hub for Karnataka, Gujarat, Madhya Pradesh, and Maharashtra.
-

38. Answer: d

Explanation:

- Chepu is a **prominent Nepali cultural symbol**.
 - It is a decorative deity that is also known as the guardian of the house.
 - It is believed in Nepali culture that it wards off evil spirits.
 - Chepu is also known as Kirtikmukha or 'face of glory'.
-

39. Answer: b

Explanation:

- **M M Jacob** has served the longest number of days as governor of an Indian state.
 - He was the governor of Meghalaya.
 - He served for a total of 11 years 293 days from 1995 to 2007.
 - Next in line is Padmaja Naidu who served in West Bengal for 10 years 209 days from 1956 to 1967.
 - Followed by N N Vohra who served in Jammu and Kashmir for 10 years and 59 days from 2008 to 2018.
-

40. Answer: a

Explanation:

- The highest peak in Sri Lanka is **Mount Pedro**.
- It is also known as Pidurutalagala Mountain and has a height of 2524 meter or 8281 feet above sea level.
- The peak is situated near the town of Nuwara Eliya which lies close to the center of the island nation.
- The summit of the peak is closed to general public because of security reasons.

41. Answer: b

Explanation:

- The term bleeder is associated with **boxing**.
- It is a slang term used to describe a player that bleeds or gets cut very easily.
- Some other common terminologies for the sports are as follows

Sport	Terms
Swimming	Back Stroke Freestyle, Butterfly, Breast stroke (all are swimming styles)
Cricket	Toss, Run, Wicket, Pitch, Stump, Bails, Crease
Volleyball	Spikers , Service , Love.

42. Answer: b

Explanation:

- **Entomology** is a subject that deals with the study of insects.
- It is a branch within zoology (the general scientific study of animals).
- The word arrives from the Greek language in which an insect is known as 'uncommon'.

Name	Definition
Geology	Study of rocks
Anthropology	Study of humans, human behaviour and society
Ornithology	Study of birds

43. Answer: c

Explanation:

- Pawan Chamling holds the title of the longest-serving chief minister of an Indian state.
- He has held the Chief Minister position of Sikkim for 25 years which is 5 terms now.
- He is the Founder and President of the Sikkim Democratic Front and has held the office from 1994.

44. Answer: b

Explanation:

- There are **3 sessions** of the Lok Sabha held annually.

Budget Session	February to May
Monsoon Session	July to September
Winter Session	November to Mid December

- During the sessions, the timings of the Lok Sabha are from 11 AM to 1 PM and 2 PM to 6 PM.
- The timings may extend beyond depending on the topics at hand on some days.

45. Answer: a

Explanation:

- **The Heckscher-Ohlin Model** proposes that countries export what they can produce very efficiently and in high quantities.
- It is also popularly known as the H-O Model or 2x2x2 model.
- It is used to examine the trade equilibrium between two countries.
- It takes into consideration that countries should ideally export materials and resources of which they have an excess, while proportionately importing those resources they need.

46. Answer: c

Explanation:

- **Glaucoma** is the medical term given when a person's optic nerve is damaged and worsens over time.
- Most common symptom of the condition is slow loss of vision.
- The condition is not curable but treatment can reduce the loss of vision.

Condition	Description
Cataract	Clouding of the normally clear lens of your eye.
AMD	Deterioration of the macula in the retina in elder people.
Dry Eye	Eyes doesn't have enough quality tears to lubricate and nourish the eye.

47. Answer: d

Explanation:

- Havelock Island was renamed as **Swaraj Dweep** in 2018.
 - The island is part of Ritchie's Archipelago in the Andaman Islands.
 - The island is a famous tourist destination for its diving sites and scenic beaches.
 - It is 90 minutes away from the capital of the Islands, Port Blair by ferry.
-

48. Answer: d

Explanation:

- **Nikolai Bulganin** was the first Russian Prime Minister to visit India after independence.
 - The Prime Minister visited India in 1955.
 - He was accompanied by Nikita Khrushchev who was the Secretary of the Communist Party.
 - They travelled to Punjab, Bombay, Bangalore, Madras and Calcutta and also some smaller towns.
-

49. Answer: a

Explanation:

- According to the 2018 IMD survey, **Mahabaleshwar** is the wettest place in India.
 - It received more rain (5,619 mm) than even Cherrapunji which was known to be the wettest place in the country for many years.
 - This was because Cherrapunji received significantly less rainfall (4730 mm) compared to previous years.
-

50. Answer: d

Explanation:

- The cerebellum is responsible for the maintenance of posture, balance and equilibrium.
- It is located behind the top part of the brain stem (where the spinal cord meets the brain).
- The cerebellum makes up about 10% of the brain's weight.
- Despite that, it contains about half of all the brain's neurons (special cells that transmit information between sensory organs and brain).
- It is made up of two small halves.

51. Answer: a

Explanation:

$$\Rightarrow \operatorname{cosec} 2\theta = \sec (3\theta - 15^\circ),$$

$$\Rightarrow \operatorname{cosec} 2\theta = \operatorname{cosec} [90^\circ - (3\theta - 15^\circ)] [\operatorname{cosec}(90^\circ - \theta) = \sec \theta]$$

$$\Rightarrow 2\theta = 90^\circ - 3\theta + 15^\circ$$

$$\Rightarrow \theta = 21^\circ$$

52. Answer: c

Explanation:

Side of each cube = 3 cm

Five cubes are joined end to end, then length of newly formed cuboid = $3 \times 5 = 15$ cm

Breadth of newly formed cuboid = 3 cm

Height of newly formed cuboid = 3 cm

As we know,

Total surface area of cuboid = $2(lb + bh + hl)$

$$\Rightarrow 2 (15 \times 3 + 3 \times 3 + 3 \times 15)$$

$$\Rightarrow 2 (45 + 9 + 45)$$

$$\Rightarrow 2 \times 99$$

$$\Rightarrow 198 \text{ cm}^2$$

53. Answer: d

Explanation:

$$(5a - 3b) : (4a - 2b) = 2 : 3$$

$$(5a - 3b) / (4a - 2b) = 2/3$$

$$(5a - 3b) \times 3 = (4a - 2b) \times 2$$

$$15a - 9b = 8a - 4b$$

$$\Rightarrow 7a = 5b$$

$$a : b = 5 : 7$$

54. Answer: d

Explanation:

$$\text{Given, } a + b + c = 10 \text{ and } ab + bc + ca = 32$$

As we know,

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

$$\Rightarrow 10 [10^2 - 3 \times 32]$$

$$\Rightarrow 10 (100 - 96)$$

$$\Rightarrow 10 \times 4$$

$$\Rightarrow 40$$

55. Answer: c

Explanation:

Given $\Delta ABC \sim \Delta NLM$,

$\Rightarrow AB = 6 \text{ cm}, BC = 8 \text{ cm}, AC = 12 \text{ cm}$ and $\text{ar}(\Delta ABC) : \text{ar}(\Delta LMN) = 4/9$,

As we know,

$$\Rightarrow \text{ar}(\Delta ABC) / \text{ar}(\Delta LMN) = (BC/ML)^2$$

$$\Rightarrow 8^2 / ML^2 = 4/9$$

$$\Rightarrow ML^2 = 8^2 \times 9/4$$

$$\Rightarrow ML = 8 \times 3/2 = 12 \text{ cm}$$

56. Answer: c

Explanation:

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

Given, $a - b = 5$ and $ab = 6$

$$\Rightarrow 5^3 = (a^3 - b^3) - 3 \times 6 \times 5$$

$$\Rightarrow (a^3 - b^3) = 125 + 90 = 215$$

57. Answer: a

Explanation:

Total cars sold by showroom B during the years 2014 and 2016 = $480 + 400 = 880$

Total cars sold by showroom C during the years 2015 and 2016 = $540 + 430 = 970$

Required ratio = $880 : 970 = 88 : 97$

58. Answer: a**Explanation:**

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

Total work = $(5 + 3 + 2) \times 21 = 210$

40% of the total work = $210 \times 40/100 = 84$

40% of the total work completed by B in = $84/3 = 28$ hours

59. Answer: a**Explanation:**

Let the initial price of sugar be $100x$

Price of sugar after increased = $100x \times [117 / 100] = 117x$

Person wants his expenditure increase by 5% only, so his expenditure should be = $100x \times [105 / 100] = 105x$

Required percentage = $[(117 - 105x) / 117] \times 100 = 10.3\%$ (approx)

60. Answer: d

Explanation:

Total cars sold in the year 2015 = $650 + 520 + 540 = 1710$

Total cars sold in the year 2016 = $630 + 400 + 430 = 1460$

Required percentage = $(1710 - 1460) / 1710 \times 100 = 14.6\%$ (approx)

61. Answer: c**Explanation:**

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

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

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

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

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

$$\Rightarrow 15.2 + 5.8 \div 2.9 \times 2 - 3.5 \times 2 \div 0.5$$

$$\Rightarrow 15.2 + 2 \times 2 - 3.5 \times 4$$

$$\Rightarrow 15.2 + 4 - 14$$

$$\Rightarrow 19.2 - 14 = 5.2$$

62. Answer: b**Explanation:**

Total cars sold by showroom A = $500 + 480 + 520 + 620 + 650 + 630 = 3400$

Total cars sold by showroom B = $450 + 420 + 530 + 480 + 520 + 400 = 2800$

Total cars sold by showroom C = $400 + 450 + 460 + 520 + 540 + 430 = 2800$

Total cars sold by all three showrooms = $3400 + 2800 + 2800 = 9000$

Cars sold in the year 2013 = $520 + 530 + 460 = 1510$

9000 represents = 360°

1510 will represent = $360/9000 \times 1510 = 60^\circ$ (approx)

63. Answer: a

Explanation:

Total number of students in the class = 50

Number of girls in class = $50 \times 40/100 = 20$

Number of boys in class = $50 - 20 = 30$

Average marks of whole class = 64.4

Sum of marks of whole class = $64.4 \times 50 = 3220$

Average marks of boys = 62

Sum of marks of boys = $62 \times 30 = 1860$

Sum of marks of girls = $3220 - 1860 = 1360$

Average marks of girls = $1360/20 = 68$

64. Answer: d

Explanation:

Divisibility law of 9 $\Rightarrow$ A number divisible by 9 if sum of its digit is divisible by 9.

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).

$\Rightarrow 8439x53$ divisible by 9 if $x = 4$

65. Answer: c

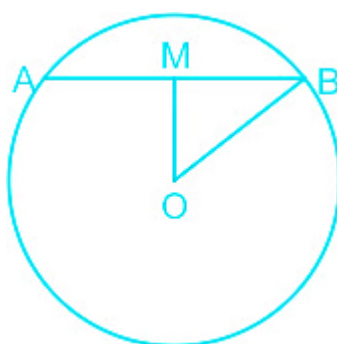
Explanation:

Total cars sold by showroom A = $500 + 480 + 520 + 620 + 650 + 630 = 3400$

Required average = $3400/6 = 566.7$ (approx)

66. Answer: a

Explanation:



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

Given, $OM = 8$ cm and Radius $OB = 17$ cm

In $\triangle OMB$

Using Pythagoras theorem

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

$$\Rightarrow 17^2 = 8^2 + (MB)^2$$

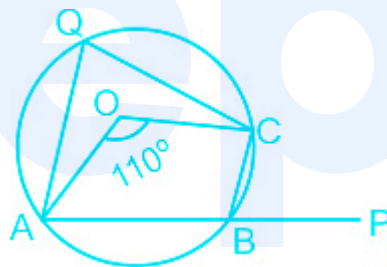
$$\Rightarrow MB = \sqrt{(289 - 64)} = 15$$

As we know, $AB = 2 MB$

$$AB = 2 \times 15 = 30 \text{ cm}$$

67. Answer: b

Explanation:



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 .

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

$$\Rightarrow \angle AQC = \frac{1}{2} \times \angle AOC = \frac{1}{2} \times 110^\circ = 55^\circ$$

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

$$\Rightarrow \angle CBP = 55^\circ$$

68. Answer: c

Explanation:

$$\sin^2 32^\circ + \sin^2 58^\circ - \sin 30^\circ + \sec^2 60^\circ$$

$$\Rightarrow \sin^2 32^\circ + \sin^2 (90 - 32)^\circ - 1/2 + 2^2$$

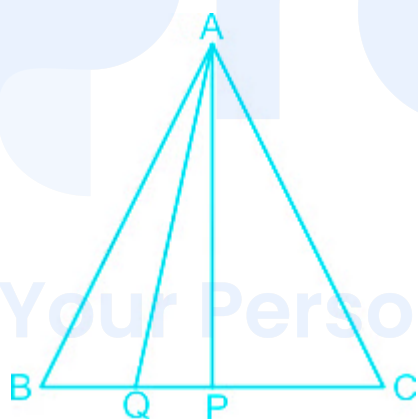
$$\Rightarrow \sin^2 32^\circ + \cos^2 32^\circ - 1/2 + 4 [\sin(90 - \theta) = \cos \theta \text{ and } \sin^2 \theta + \cos^2 \theta = 1]$$

$$\Rightarrow 1 - 1/2 + 4$$

$$\Rightarrow 5 - 0.5 = 4.5$$

69. Answer: c

Explanation:



Given, $BP : PC = 4 : 11$

Suppose $BP = 4$ unit and $PC = 11$ unit

$$BC = BP + PC = 4 + 11 = 15 \text{ unit}$$

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

$$BQ = BP/2 = 4/2 = 2 \text{ unit}$$

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

or $\Delta ABQ : \Delta ABC = 2 : 15$

70. Answer: d

Explanation:

$$2\sin \theta = 5\cos \theta$$

$$\sin \theta / \cos \theta = 5/2$$

$$\tan \theta = 5/2$$

$$\frac{\sin \theta + \cos \theta}{\sin \theta - \cos \theta}$$

Divide by $\cos \theta$

$$\frac{\tan \theta + 1}{\tan \theta - 1}$$

$$\Rightarrow \frac{\frac{5}{2} + 1}{\frac{5}{2} - 1} = \frac{\frac{7}{2}}{\frac{3}{2}} = \frac{7}{3}$$

71. Answer: a

Explanation:

According to the question

$$\Rightarrow 480 \times [75/100] \times [(100 - x)/100] = 288$$

$$\Rightarrow 360 \times [(100 - x)/100] = 288$$

$$\Rightarrow (100 - x)/100 = 288/360$$

$$\Rightarrow 100 - x = (4/5) \times 100$$

$$\Rightarrow 100 - x = 80\%$$

$$\Rightarrow x = 100 - 80 = 20\%$$

72. Answer: a

Explanation:

As we know,

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

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

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

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

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

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

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

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

73. Answer: c

Explanation:

As we know,

Time is inversely proportional to speed.

Let the usual speed of the person be $9x$

Speed of the person after decreasing = $7x$

Ratio of usual speed to after decreasing = $9x : 7x$

Ratio of usual time to after decreasing = $7x : 9x$

$$9x - 7x = 10$$

$$\Rightarrow x = 5$$

$$\therefore 7x = 7 \times 5 = 35 \text{ min}$$

74. Answer: a

Explanation:

As we know,

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

Given, $r = 15\%$, time = 2 years and $P = x$

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

$$\Rightarrow \frac{(P \times 15 \times 15)}{100 \times 100} = 9$$

$$\Rightarrow P = 400$$

75. Answer: b

Explanation:

SP of each article = Rs. 962

$$\text{CP of first article} = 962 \times \left[\frac{100}{130} \right] = 740$$

$$\text{CP of second article} = 962 \times \left[\frac{100}{74} \right] = 1300$$

$$\text{Total SP of both article} = 962 \times 2 = 1924$$

$$\text{Total CP of both article} = 740 + 1300 = 2040$$

$$\text{Total Loss} = 2040 - 1924 = 116$$

$$\text{Loss percentage} = [116/2040] \times 100 = 5.7\% \text{ (approx)}$$

76. Answer: a

Explanation:

The correct answer is option 1.

The given sentence clearly states that the **turtles** mate around 1000 kilometers from a place named Anjarle and the next line also mentions **beach**. So, option 1 is correct.

77. Answer: c

Explanation:

The correct answer is option 3.

Since the passage talks about **turtles mating** and the word **lay** has been used. Therefore, laying eggs can be the most appropriate.

So, option 3 is correct.

78. Answer: a

Explanation:

The correct answer is option 1.

First should be **B** as it gives an introduction to what Kanyakumari is. Next, it mentions more about its name. So, next will be **D**. As **C** contains the word **also**, it means that the previous sentence already describes the town. So, the correct sequence should be **BDAC**.

79. Answer: c

Explanation:

The correct answer is option 3.

Public means **done, perceived, or existing in an open view.**

Common means **occurring, found, or done often; prevalent.**

Restricted means **limited in extent, number, scope, or action.**

Private means **not to be revealed to others.**

Ready means **in a suitable state for action or situation; fully prepared.**

80. Answer: c

Explanation:

The correct answer is option 3.

The given idiom means **right in front of him.** The sentence means that **the invigilator did not know that the two boys were exchanging notes right in front of him.**

81. Answer: a

Explanation:

The correct answer is option 1.

Hostility means **unfriendliness or opposition.**

Enmity means **a state or feeling of active opposition or hostility.**

Sympathy means feelings of pity and sorrow for someone else's misfortune.

Friendship means the emotions or conduct of friends; the state of being friends.

Goodwill means
friendly, helpful, or cooperative feelings or attitude.

82. Answer: b

Explanation:

The correct answer is option 2) i.e. in writing .

★ Key Points

- **Context of the sentence**: The given sentence talks about to have all the regulations in writing.
- **Underlined Idiom**: **In black and white** means in writing, especially an agreement, contract, or other formal documents.
 - Example: *It is the intention of the two Governments to place this agreement in black and white shortly.*
- Hence , the most appropriate meaning of the given idiom is " **in writing** ".

★ Additional Information

- Its first use dates back to the 18th-century civil war of America. Both Blacks and Whites used to consider them as correct and there was a deadlock on every minor to a major issue. Every member of the race tries to provide them correctly and prove the other one incorrect which lead to the formation of the phrase "in black and white". It means that in real life situation it is not compulsory that one person is right and another person is wrong, maybe both are right in their own place.

★ Mistake Points

- We might think that in black and white means painted in black and white and this may lead us to select the second option in the question. Be careful when

dealing with such questions!

83. Answer: a

Explanation:

The correct answer is option 1.

Industrialized should be used as it means **develop industries in (a country or region) on a wide scale**. The sentence is mentioning **acid rain** which is possible due to industries. So, option 1 is correct.

84. Answer: b

Explanation:

The correct answer is option 2.

The first line talks about the **turtle** festival and Olive Ridley turtles. So, the correct answer should be **turtles**.

85. Answer: a

Explanation:

The correct answer is option 1.

The sentence is clearly talking about an action that may occur in the future. **Left** is the past tense form of the verb which is incorrect. The correction would be **leave**. So, option 1 is correct.

86. Answer: b

Explanation:

The correct answer is option 2.

The given sentence is in the simple future tense. So, a change in voice will use the word **will be**. So, the correct answer is option 2.

87. Answer: c

Explanation:

The correct answer is option 3.

Insult means **speak to or treat with disrespect or scornful abuse**.

Offer means express readiness to do something for or on behalf of someone.

Apply means make a formal application or request.

Offend means **cause to feel upset, annoyed, or resentful**.

Remove means

take (something) away or off from the position occupied.

88. Answer: c

Explanation:

The correct answer is option 3.

Progressive means **favoring change or innovation**.

Repeated means **did or occurring again several times in the same way**.

Moving means in motion.

Conservative means **averse to change or innovation and holding traditional values.**

Aristocratic means belonging to the highest class

89. Answer: a

Explanation:

The correct answer is option 1.

The correct spellings of options 2,3 and 4 are **terrible, cluttering and sweater** respectively.

90. Answer: c

Explanation:

The correct answer is option 3.

Satisfiable means able to be satisfied.

Contented means feeling or expressing happiness or satisfaction.

Insatiable means **impossible to satisfy.**

Satisfactory means fulfilling expectations or needs; acceptable, though not outstanding or perfect.

91. Answer: a

Explanation:

The correct answer is option 1.

Clearly the active form of the sentence must have **friends as the subject**. So, options 2 and 4 are incorrect. Now, the sentence is past tense, so option 1 is correct as option 3 is in the future continuous tense.

92. Answer: a

Explanation:

The correct answer is option 1.

Brittle means hard but liable to break easily.

Soft means easy to mold, cut, compress, or fold; not hard or firm to the touch.

Bent means sharply curved or having an angle.

Thin means with opposite surfaces or sides that are close or relatively close together.

93. Answer: c

Explanation:

The correct answer is option 3.

The word **long** signifies that it is referring to an action that has already happened in the past and it is going on till now. Therefore, we will use the present perfect continuous tense. So, option 3 is correct.

94. Answer: d

Explanation:

The correct answer is **BADC**.

:-

★ Key Points

- **First is B** as it defines what Arvind is reminded of i.e his daughter.
- **Next is A** as it describes how he would stare at her and options C and D give an account of what he felt.
- After A it should be **D** as C clearly is followed by D because D mentions how long an hour was and **C** further explains that an hour was a vast sprawling space for his daughter.

Therefore, the correct sequence of the paragraph is **BADC**.

95. Answer: d

Explanation:

The correct answer is option 4.

Affectionate means readily feeling or showing fondness or tenderness.

Caring means displaying kindness and concern for others.

Devoted means very loving or loyal.

Negligent means

failing to take proper care over something.

Negligent should be used to describe that she was satisfied that she did not fail in doing whatever was needful for building up their character.

96. Answer: c

Explanation:

The correct answer is option 3.

The correct spelling of the given word is **mention**.

97. Answer: d

Explanation:

The correct answer is option 4.

Since the passage talks about turtles and **turtles have shells, therefore**, they get their names from their olive-colored shells. So, options 1,2 and 3 are incorrect.

98. Answer: c

Explanation:

The correct answer is option 3.

Option 3 has an error . Instead of **at**, **in** is more appropriate because we are talking about the state in which they exist.

At is mostly used for a particular time or event. So, option 3 is correct.

99. Answer: c

Explanation:

The correct answer is option 3.

The sentence is talking about the **growth of turtles** and the most appropriate dimension to be mentioned is the length. So, option 3 is correct.

100. **Answer: a**

Explanation:

The correct answer is option 1.

Instead of the **guard, guards** should be used as the sentence is in the third person present tense form. So, option 1 is correct.



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