



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

RRB Group D 2018 Question Paper (11-Oct-2018) (Shift 3)

Total Time: 1 Hour : 30 Minute

Total Marks: 100

Instructions

1. Test will auto submit when the Time is up.
2. The Test comprises of multiple choice questions (MCQ) with one correct answers.
3. The clock in the top right corner will display the remaining time available for you to complete the examination.

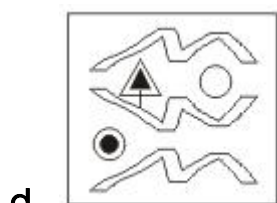
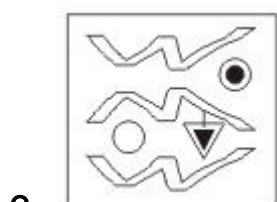
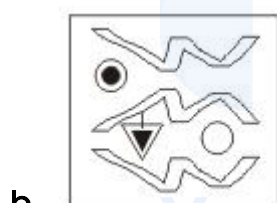
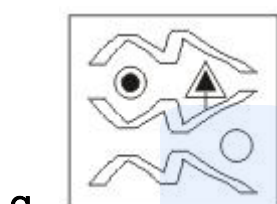
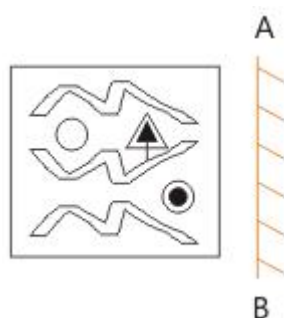
Navigating & Answering a Question

1. The answer will be saved automatically upon clicking on an option amongst the given choices of answer.
2. To deselect your chosen answer, click on the clear response button.
3. The marking scheme will be displayed for each question on the top right corner of the test window.

Your Personal Exams Guide

Test

1. What is the correct mirror image of the given figure with respect to line AB? (+1, -0.33)



2. Electric current in a circuit is produced by the motion of _____. (+1, -0.33)

- a. Protons
- b. Electrodes
- c. Electrons
- d. Neutrons

3. The 'National Health Stack' was recently unveiled by which Ministry/body? (+1, -0.33)

- a. Ministry of Finance
- b. NITI Aayog
- c. Ministry of Health and Family Welfare
- d. PMO

4. The mass of an object is $m = 30 \text{ kg}$ and its velocity is $v = 5 \text{ ms}^{-1}$. Find the kinetic energy of the object. (+1, -0.33)

- a. 375 J
- b. 375 N
- c. 375 W
- d. 375 Pa

5. Nagpur is famous for _____. (+1, -0.33)

- a. Jute
 - b. Saffron
 - c. Apples
 - d. Oranges
-

6. The shadow of a standing tree is $\frac{1}{\sqrt{3}}$ of its height. Find the angle of elevation. (+1, -0.33)

- a. 90 degree
 - b. 30 degree
 - c. 60 degree
 - d. 45 degree
-

7. Wavelength is usually denoted by the Greek letter _____. (+1, -0.33)

- a. Beta
 - b. Gamma
 - c. Lambda
 - d. Alpha
-

8. Which of the following numbers is rational? (+1, -0.33)

- a. $\sqrt{1221}$
- b. $\sqrt[4]{1441}$

c. $\sqrt[5]{1551}$

d. $\sqrt[3]{1331}$

9. Which class of animals has dry, glandless skin? (+1, -0.33)

- a. Mammals
 - b. Aves (Birds)
 - c. Reptiles
 - d. Amphibians
-

10. What day of the week was 16-03-2007? (+1, -0.33)

- a. Tuesday
 - b. Thursday
 - c. Friday
 - d. Wednesday
-

11. Which of the following is the currency of Botswana? (+1, -0.33)

- a. Riel
 - b. Dollar
 - c. Pula
 - d. Dram
-

12. In ammonia, the masses of N_2 and H_2 are always in the ratio _____. (+1, -0.33)

- a. 3 : 8
- b. 14 : 3
- c. 8 : 3
- d. 3 : 14

13. Which of the following is the capital of Ireland? (+1, -0.33)

- a. Newport
- b. Dublin
- c. Edinburgh
- d. Cardiff

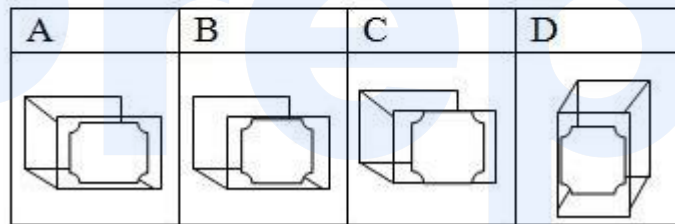
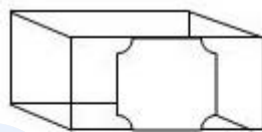
14. Pointing to a picture, Kirti told Mohan, 'The girl in the picture is the eldest daughter of my friend's father's brother-in-law'. How is the girl related to Kirti's friend? (+1, -0.33)

- a. Daughter
- b. Sister-in-law
- c. Niece
- d. Cousin

15. What are the components of Brass? (+1, -0.33)

- a. Chromium and Nickel
- b. Lead and Tin
- c. Copper and Zinc
- d. Copper and Tin

16. Which of the following option figures bears the closest resemblance to the question figures? (+1, -0.33)



- a. B
- b. A
- c. D
- d. C

17. Which of the following is associated with the Doctrine of Lapse? (+1, -0.33)

- a. Lord Canning
- b. Lord Dalhousie

c. Lord Salisbury

d. Lord Irwin

-
18. On the basis of the description given below, which of the following two conclusions follow(s) it? (+1, -0.33)

Statements:

Some Bats are Sticks. All Sticks are Rockets.

Conclusions:

1. Some Bats are Rockets.

2. No Stick is a Bat.

a. Only 2 follows.

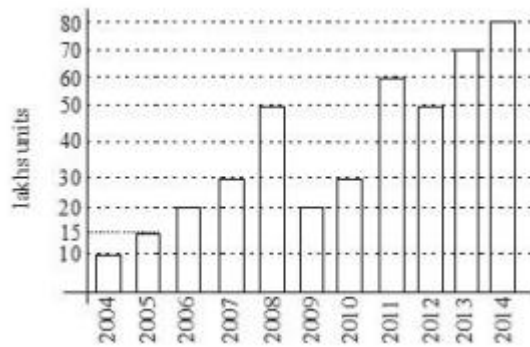
b. Either 1 or 2 follows.

c. Neither 1 nor 2 follows.

d. Only 1 follows.

-
19. The bar graph given below shows information about personal computers sold by company 'XYZ' in the last 10 years. (+1, -0.33)

How many lakh personal computers were sold by company XYZ in 2013?



- a. 60
- b. 80
- c. 90
- d. 70

20. The value of $\frac{(843 + 375)^2 + (843 - 375)^2}{(843 \times 843 + 375 \times 375)}$ is ----- (+1, -0.33)

- a. 2
- b. 5
- c. 12
- d. 8

21. Kuldeep Yadav is associated with which of the following sports? (+1, -0.33)

- a. Cricket
- b. Wrestling
- c. Kabaddi
- d. Boxing

22. Sanjana's father's mother is Mani. How is Mani related to Sanjana's sister? (+1, -0.33)

- a. Sister
 - b. Mother
 - c. Aunt
 - d. Grandmother
-

23. Who is the author of the book 'Exam Warriors'? (+1, -0.33)

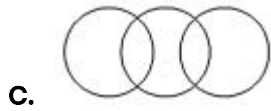
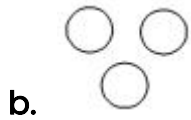
- a. Kamlesh D. Patel
 - b. Narendra Modi
 - c. Satya Nadella
 - d. Shashi Tharoor
-

24. Who has been chosen as the new Chairperson of the Film and Television Institute of India (FTII) in 2017? (+1, -0.33)

- a. Prasoon Joshi
 - b. Sambit Patra
 - c. Anupam Kher
 - d. Rajat Sharma
-

25. Choose the best suitable Venn diagram for the following words: (+1, -0.33)

Wood, Table, Door



26. Gold is 17 times heavier than water and copper is 9 times heavier than water. In what ratio should the metals be mixed so that the mixture becomes 12 times heavier than water? (+1, -0.33)

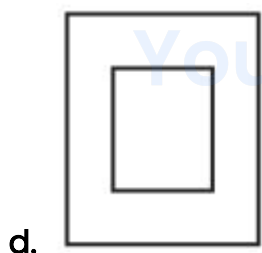
- a. 3 : 5
- b. 7 : 1
- c. 4 : 3
- d. 3 : 2

27. Select the odd one from the following. (+1, -0.33)

a. $\frac{d}{dx}$

b. $\int$

c. Σ



28. Read the given statements and conclusions carefully and select the conclusion that logically follows the statements.

(+1, -0.33)

Statements:

I. All instruments are solids.

II. Some solids are metals.

Conclusions:

1. All metals are instruments.

2. Some metals are solids.

a. Only conclusion 2 follows.

b. Both 1 and 2 follow.

c. Only conclusion 1 follows.

d. Neither 1 nor 2 follows.

29. Amit packs 20 chocolates in 40 minutes. Guneet packs 30 chocolates in 45 minutes. How many chocolates can both of them together pack in 1 hour? (+1, -0.33)

a. 90

b. 70

c. 60

d. 80

30. Find the median of the first 10 numbers of the Fibonacci series: a (+1, -0.33)
Fibonacci number is the sum of the previous two numbers of that series.
The first two Fibonacci numbers are 0 and 1 respectively.

a. 4

b. 4.5

c. 5

d. 3

31. Pipes J and K can fill a tank in 15 minutes and 20 minutes respectively. If both pipes are opened together at the same time, how long will it take to fill the tank? (+1, -0.33)

a. $15\frac{2}{3}$ minutes

b. $11\frac{3}{5}$ minutes

c. $8\frac{4}{7}$ minutes

d. $17\frac{1}{2}$ minutes

32. 15 trainees can do as much work in a day as 4 experts do in a day. 12 experts and 9 trainees take 8 days to dig a pond. How many experts will be needed along with 18 trainees to dig a similar pond in 9 days? (+1, -0.33)

a. 6

b. 10

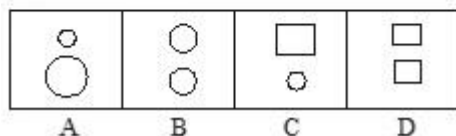
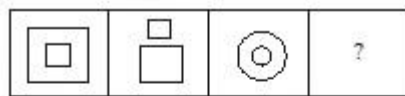
c. 8

d. 12

33. Find the next figure in the series given below. (+1, -0.33)

Question Figure:

Answer Figures:

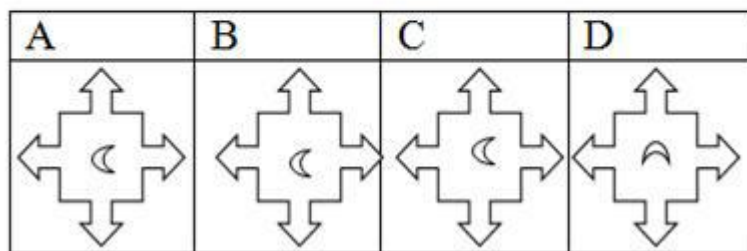


- a. D
- b. A
- c. C
- d. B

34. Which of the following option figures shows the closest resemblance to the question figures? (+1, -0.33)

Question Figure:

Option Figures:



- a. D
- b. B

c. A

d. C

35. The role of earthworms in soil fertility was studied by _____. (+1, -0.33)

a. Stanley L. Miller

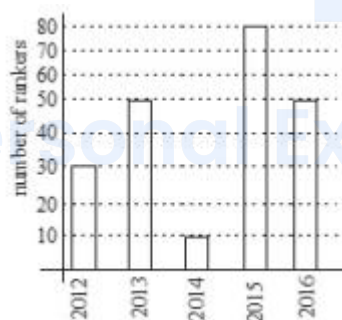
b. J.B.S. Haldane

c. Harold C. Urey

d. Charles Darwin

36. The graph given below shows the results of the last five years of the national level entrance test of institute 'ABC'. (+1, -0.33)

How many ranks came from institute 'ABC' in 2012?



a. 20

b. 50

c. 30

d. 10

37. In the question given below, a statement is followed by two assumptions numbered I and II. You have to consider the statement and the assumptions and decide which of the assumptions is implicit in the statement. (+1, -0.33)

Statement:

Anu leaves at 10.00 a.m. to attend a meeting scheduled at 3.00 p.m.

Assumptions:

- I. Anu will reach the venue of the meeting by 11.00 a.m.
 - II. Anu will reach the venue of the meeting before 3.00 p.m.
- a. Neither I nor II is implicit.
 - b. Both I and II are implicit.
 - c. Only Assumption II is implicit.
 - d. Only Assumption I is implicit.

-
38. As of March 2018, how many participants of Indian origin had participated in the 46th Know India Programme (KIP)? (+1, -0.33)

- a. 40
 - b. 20
 - c. 10
 - d. 30
-

39. Find the energy possessed by an 11 kg object when it is at a height of 5 m above the ground. Given $g = 9.8ms^{-2}$. (+1, -0.33)

- a. 528 J
- b. 520 J
- c. 539 J
- d. 588 J

40. X and Y are two elements with similar properties that follow Newlands' Law of Octaves, and Y lies within the two octaves that follow X. The minimum and maximum number of elements between X and Y will be _____ and _____ respectively. (+1, -0.33)

- a. 6 and 13
- b. 8 and 14
- c. 6 and 8
- d. 7 and 15

41. Find the area of a triangle whose two sides and perimeter are 9 cm, 11 cm and 34 cm respectively. (+1, -0.33)

- a. $17\sqrt{12}$ sq. cm
- b. $12\sqrt{17}$ sq. cm
- c. $15\sqrt{17}$ sq. cm
- d. $12\sqrt{15}$ sq. cm

42. If y is the smallest positive integer such that multiplying 3150 by y gives the square of an integer, what is the value of y ? (+1, -0.33)

- a. 14
- b. 13
- c. 11
- d. 12

43. An open box is made from wood of 3 cm thickness whose outer length, breadth and height are 80 cm, 60 cm and 40 cm respectively. If its outer and inner wall surfaces are painted at the rate of 75 paise per 100 cm², what will be the total cost of the painting? (+1, -0.33)

- a. ₹ 581.01
- b. ₹ 221.01
- c. ₹ 158.01
- d. ₹ 185.01

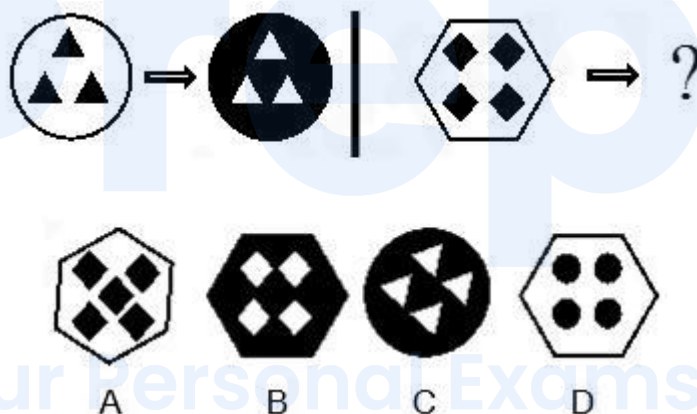
44. The melting point and boiling point of ionic compounds are _____. (+1, -0.33)

- a. High
 - b. Constant
 - c. Medium
 - d. Low
-

45. Who among the following won the 'IIFA Woman of the Year' award at the 18th edition of the International Indian Film Academy Awards? (+1, -0.33)

- a. Alia Bhatt
- b. Taapsee Pannu
- c. Kareena Kapoor
- d. Shraddha Kapoor

46. Which of the figures given below correctly fits in the blank space (?) above? (+1, -0.33)



- a. A
- b. B
- c. D
- d. C

47. Which post did Ram Nath Kovind hold immediately before being sworn in as the 14th President of India? (+1, -0.33)

- a. Governor of Bihar
- b. Vice President
- c. Chief Minister of Bihar
- d. Speaker of the Lok Sabha

48. What is the name of the first Indian gymnast to win an individual medal at the Gymnastics World Cup held at Hisense Arena? (+1, -0.33)

- a. Pranati Nayak
- b. Sakshi Malik
- c. Aruna Budda Reddy
- d. Dipa Karmakar

49. Simplify: (+1, -0.33)

$$108 \div [35 - \{48 \div 24 + (16 - 19)\}] = ?$$

- a. 9
- b. 3
- c. 4
- d. 6

50. Shrilekha is Shrivalli's maternal grandmother. What is the relation of Shrilekha's only daughter to Shrivalli? (+1, -0.33)

- a. Paternal aunt
 - b. Maternal grandmother
 - c. Mother
 - d. Sister
-

51. Dalia is 20 years older than Nitu, and in two years her age will be twice Nitu's age. What is Nitu's present age? (+1, -0.33)

- a. 16 years
 - b. 20 years
 - c. 18 years
 - d. 22 years
-

52. Which of the following compounds contains a double bond? (+1, -0.33)

- a. Propane
 - b. Propene
 - c. Propanol
 - d. Propyne
-

53. An astronaut on a spacecraft sees the sky as _____. (+1, -0.33)

- a. Orange
- b. Blue

- c. Red
- d. Black

54. Kiran told Varun that her brother Abhi is 4 years younger than her. She also mentioned that the sum of their ages is 32. Help Varun find the ages of Kiran and Abhi. (+1, -0.33)

- a. Kiran is 18 years and Abhi is 14 years
- b. Kiran is 12 and Abhi is 16
- c. Kiran is 10 and Abhi is 14
- d. Kiran is 16 years and Abhi is 12 years

55. The quantity of electric charge flowing through a circuit in 10 minutes is 300 C. Find the current used by the filament of an electric bulb. (+1, -0.33)

- a. 2 A
- b. 0.2 A
- c. 0.5 A
- d. 5 A

56. A statement is given below followed by Assumptions numbered I and II. You have to consider the statement and the assumptions that follow and decide which of the assumptions is/are implicit in the statement. (+1, -0.33)

Statement:

Sharni has booked a movie ticket online today for tomorrow's show.

Assumptions:

I. Movie tickets can be booked in advance.

II. Movie tickets can be booked online.

a. Only Assumption I is implicit.

b. Neither I nor II is implicit.

c. Only Assumption II is implicit.

d. Both I and II are implicit.

57. On 1 March 2018, the Indian Cabinet signed a Memorandum of Understanding on cooperation in the health sector with which country? (+1, -0.33)

a. Sri Lanka

b. Australia

c. Canada

d. Jordan

58. Thrust per unit area is called _____. (+1, -0.33)

a. Mass

b. Force

c. Pressure

d. Area

59. Two cubes, each of volume 343 cm^3 , are joined edge to edge. The volume of the resulting cuboid is _____.

(+1, -0.33)

- a. 720 cm^3
- b. 729 cm^3
- c. 686 cm^3
- d. 841 cm^3

60. X introduces Y to his friends as the son of the wife of his only son. X is Y's _____.

(+1, -0.33)

- a. Grandfather
- b. Grandson
- c. Father
- d. Son

61. Which of the following equations represents the position-velocity relation?

(+1, -0.33)

- a. $v = u + at$
- b. $v = u - at$
- c. $s = ut + \frac{1}{2} at^2$
- d. $2as = v^2 - u^2$

62. Find the values of a, b, c and d (in that order): (+1, -0.33)

$$9a5b - 3701 = c15d$$

- a. 3, 4, 6, 8
- b. 3, 6, 8, 4
- c. 8, 4, 6, 3
- d. 4, 8, 3, 6

63. Which of the following is not correct about the cerebellum? (+1, -0.33)

- a. It has two parts, which are called cerebral hemispheres.
- b. It is a part of the hindbrain.
- c. It is a fairly small part of the brain, about 12%.
- d. It is situated in the posterior region of the brain.

64. Raju invested ₹5000 at an annual compound interest rate of P%. After 3 years he received ₹1,655 more. Find the value of P. (+1, -0.33)

- a. 30
- b. 10
- c. 40
- d. 20

65. Read the given statement and conclusions carefully, and select the conclusion that logically follows the said statement. (+1, -0.33)

Statement:

Mr X is a great artist. His works of art are popular throughout the world.

Conclusions:

I. There are many artists in this world.

II. Mr X is one of the great artists.

- a. Only Conclusion I follows
- b. Both I and II follow
- c. Neither I nor II follows
- d. Only Conclusion II follows

-
66. The cost of 9 pens and 5 pencils is ₹154, and the cost of 13 pens and 7 pencils is ₹222. What is the cost of a pen and a pencil separately? (+1, -0.33)

- a. Pen, 16; Pencil, 2
- b. Pen, 14; Pencil, 4
- c. Pen, 15; Pencil, 3
- d. Pen, 6; Pencil, 12

-
67. Which of the following exhibits multiple fission? (+1, -0.33)

- a. Hydra

- b. Yeast
- c. Planaria
- d. Plasmodium

68. Who won the 2017 French Open Mixed Doubles title? (+1, -0.33)

- a. Rohan Bopanna and Gabriela Dabrowski
- b. Rohan Bopanna and Robert Farah
- c. Rohan Bopanna and Anna-Lena Groenefeld
- d. Rohan Bopanna and Sania Mirza

69. A car falls off a ledge and reaches the ground in 0.9 seconds. (Take $g = 10 \text{ ms}^{-2}$.) What is its speed as it strikes the ground? (+1, -0.33)

- a. 5 ms^{-1}
- b. 9 ms^{-1}
- c. 9.5 ms^{-1}
- d. 9 ms^{-2}

70. Read the given statement and conclusions carefully and choose which conclusion(s) logically follow the statement. (+1, -0.33)

Statement:

The CEO of a multinational company said, "A day-care centre will be provided to our employees, so that young mothers do not have to leave

their children away at home.”

Conclusions:

I. The CEO has announced the opening of a day-care centre at the workplace.

II. The CEO is expecting his women employees to use the facility, so that they remain stress-free from domestic responsibilities.

- a. Only Conclusion II follows.
- b. Only Conclusion I follows.
- c. No conclusion follows.
- d. Both conclusions follow.

71. How many seats did the Samajwadi Party win in the Uttar Pradesh Legislative Assembly election of 2017? (+1, -0.33)

- a. 65
- b. 31
- c. 49
- d. 47

72. Find the next number in the series. (+1, -0.33)

2, 10, 44, 224, _ _ _ _ _

- a. 1344
- b. 1350

c. 1300

d. 1348

73. If $a : b = 7 : 9$ and $b : c = 5 : 11$, then $a : b : c = ?$ (+1, -0.33)

a. 45 : 35 : 99

b. 35 : 45 : 99

c. 99 : 45 : 35

d. None of these

74. Which of the following statements is true? (+1, -0.33)

A. Shape: Depending on the type of matter, the shape varies based on the arrangement of particles. For example, solids have a definite shape, whereas liquids take the shape of their container and gases have no shape.

B. Fluidity: The ability to flow easily and to change shape under the influence of external forces is a property of matter, exhibited by both liquids and gases.

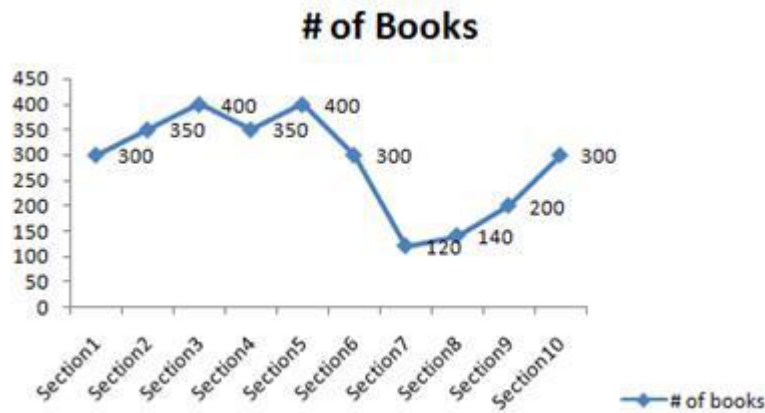
a. Both A and B are false

b. Only A is true

c. Only B is true

d. Both A and B are true

75. Based on the graph below, which sections have more than 360 books? (+1, -0.33)



- a. Section 4 and Section 5
- b. Only Section 3
- c. Section 3 and Section 5
- d. Section 5 and Section 6

76. Which of the following is NOT a source of energy? (+1, -0.33)

- a. Irrigated land
- b. Interior of the Earth
- c. Atomic nucleus
- d. Tides

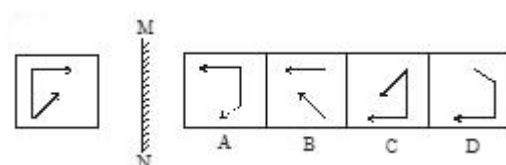
77. Who among the following is an Indian IT industrialist and a co-founder of a multinational corporation that provides business consulting, technology, engineering, and outsourcing services? (+1, -0.33)

- a. Shailesh Vara
- b. Rishi Sunak

- c. Alok Sharma
- d. N. R. Narayana Murthy

78. Select the mirror image for the given figure: (+1, -0.33)

Note: For this question, discrepancy is found in question/answer. So, This question is ignored for all candidates.



- a. D
- b. C
- c. B
- d. A

79. The pH value of a highly acidic mixture is _____. (+1, -0.33)

- a. 14
- b. 0
- c. 7
- d. 10

80. In the modern periodic table, metals are not included in period _____. (+1, -0.33)

- a. 2

b. 3

c. 4

d. 1

81. Fill in the blank. (+1, -0.33)

Newton's first law of motion gives the qualitative definition of which of the following?

a. Acceleration

b. Momentum

c. Force

d. Oscillation

82. In a triangle, if $\angle B = 90^\circ$ and $\angle A = 60^\circ$, then $\sin^2 A + \cos^2 A = ?$ (+1, -0.33)

a. 1

b. $3/2$

c. $(\sqrt{3} - 1)/2$

d. $(\sqrt{3} + 1)/2$

83. Surabhi and Madhura are playing carrom in the standard seating position. If Surabhi is facing the North-East direction, then which direction is her opponent Madhura facing? (+1, -0.33)

a. North - East

- b. South – West
- c. North – West
- d. South – East

84. Select the odd one out from the following:

(+1, -0.33)



- a. C
- b. B
- c. D
- d. A

85. Who has launched DARPAN (Digital Advancement of Rural Post Office for A New India) with an aim of improving the quality of service, adding value to services and achieving financial inclusion of the un-banked rural population?

(+1, -0.33)

- a. Ministry of Education
- b. Ministry of Communications
- c. Ministry of Human Resource Development
- d. Ministry of Finance

86. Gautam Buddha used the common people's language _____ in his sermons. (+1, -0.33)

- a. Persian
- b. Sanskrit
- c. Tamil
- d. Prakrit

87. Emma makes arrangements for a kitty party. She divides the total expected expenditure into 5 broad segments. The distribution is given below: (+1, -0.33)

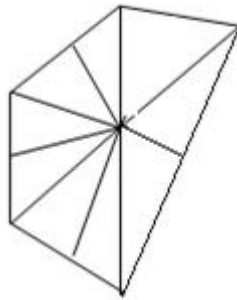
Expenditure Segment	Expenditure %
1	25
2	20
3	15
4	30
5	10

If she spends ₹ 3,000 on segment 3, what will be her total expenditure for segment 2 and segment 5?

- a. ₹ 6,000
- b. ₹ 3,000
- c. ₹ 1,000
- d. ₹ 2,000

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

(+1, -0.33)



- a. 12
- b. 15
- c. 14
- d. 8

89. Find the missing term and complete the series.

(+1, -0.33)

T-36, W-49, Z-64, ?, F-100

- a. G-10
- b. O-25
- c. C-81
- d. P-90

90. An article was bought for ₹ 500 and sold for ₹ 850. What will be the profit percentage?

(+1, -0.33)

- a. 70%

- b. 60%
 - c. 50%
 - d. 75%
-

91. The dimensions of a rectangular plot of land, correct to the nearest integer, are given as 28 m and 22 m. What is the minimum possible perimeter of the rectangle? (+1, -0.33)

- a. 50 m
 - b. 100 m
 - c. 98 m
 - d. 49 m
-

92. What is the minimum age required to be eligible as a Member of the Lok Sabha? (+1, -0.33)

- a. 45 years
 - b. 21 years
 - c. 35 years
 - d. 25 years
-

93. Which of the following numbers is a multiple of every number from 1 to 10? (+1, -0.33)

- a. 1250
- b. 1430

- c. 820
 - d. 5040
-

94. If the pH value of a salt is 12, then it is a salt of _____. (+1, -0.33)

- a. Strong acid and strong base
 - b. Strong acid and weak base
 - c. Weak acid and strong base
 - d. Weak acid and weak base
-

95. What is the value of X, if $\sqrt{1849} \times \sqrt{X} = 2451$? (+1, -0.33)

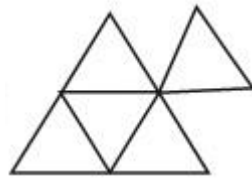
- a. 3136
 - b. 3481
 - c. 3364
 - d. 3249
-

96. The apical meristem is found at the top (growing tip) of _____. (+1, -0.33)

- a. Branch and roots
 - b. Root
 - c. Leaf and root
 - d. Stem and roots
-

97. How many triangles are there in the given figure?

(+1, -0.33)



- a. 7
- b. 8
- c. 5
- d. 6

98. In 2017, India's Saikhom Mirabai Chanu won a gold medal at the World Weightlifting Championship held in Anaheim, United States. Which state is she associated with?

(+1, -0.33)

- a. Arunachal Pradesh
- b. Assam
- c. Manipur
- d. Sikkim

99. A 200 m long train crossed a man running in the same direction at 5 km/hr in 15 sec. The speed of the train is _____.

(+1, -0.33)

- a. 53 km/h
- b. 48 km/h
- c. 43 km/h

d. 52 km/h

100. If Q means +, J means $\times$, T means $-$, and K means $\div$, then what is the value of: $42K3Q9J4T2 = ?$ (+1, -0.33)

a. 55

b. 48

c. 57

d. 50

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