



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 (1-Oct-2018) (Shift 1)

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.

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Test

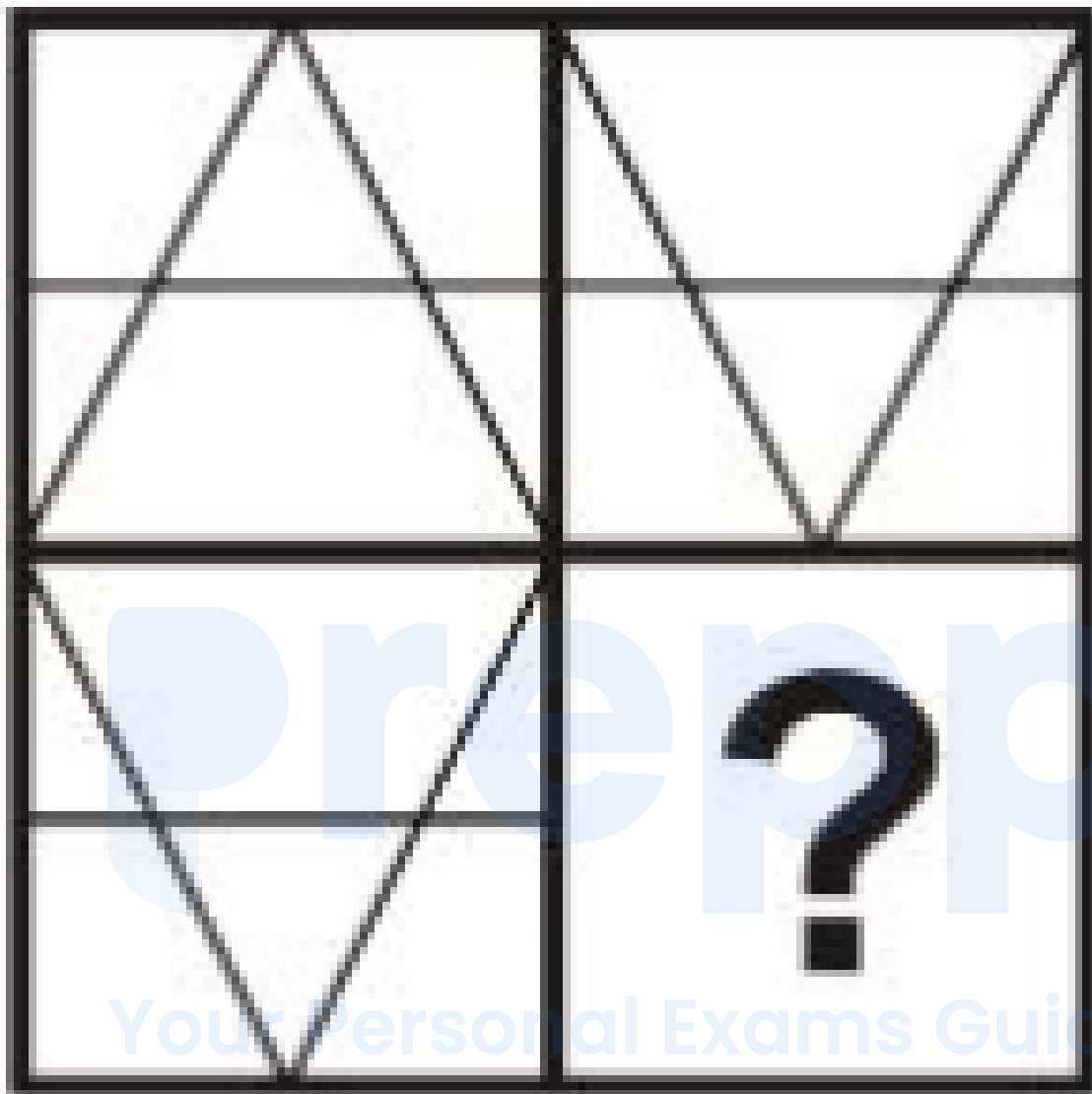
1. Calculate the sum of the face value and the place value of 7 in 3728456. (+1, -0.33)

- a. 0
- b. 700000
- c. 7
- d. 700007

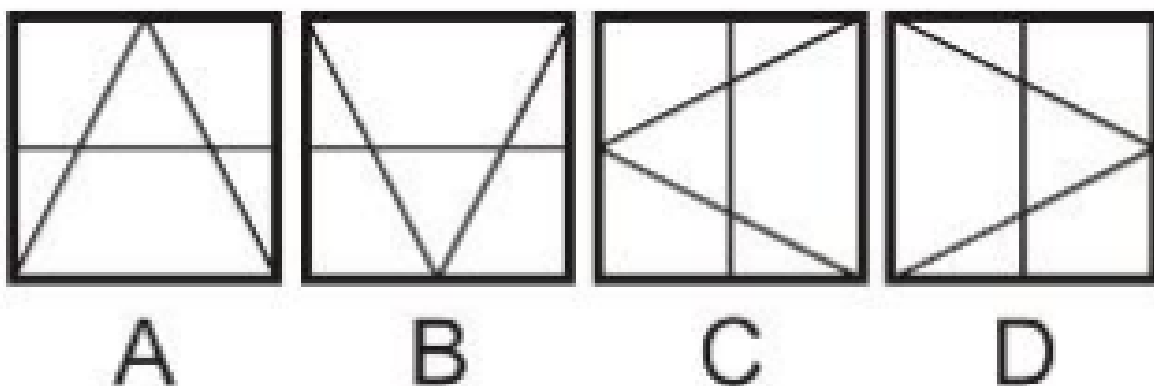
2. If $a + \frac{1}{a} = \sqrt{3}$, find the value of $a^3 + \frac{1}{a^3}$. (+1, -0.33)

- a. 0
- b. -2
- c. 1.5
- d. 2

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3. From the following options, select the figure that will come in place of the question mark (?) in the figure given above. (+1, -0.33)



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

4. Which of the following scientists suggested that the symbols of elements can be formed from one or two letters of the element's name? (+1, -0.33)

- a. Berzelius
- b. Dalton
- c. Lavoisier
- d. Democritus

5. Given below is 1 statement and two arguments. Decide which arguments are strong with respect to the statement. (+1, -0.33)

Statement:

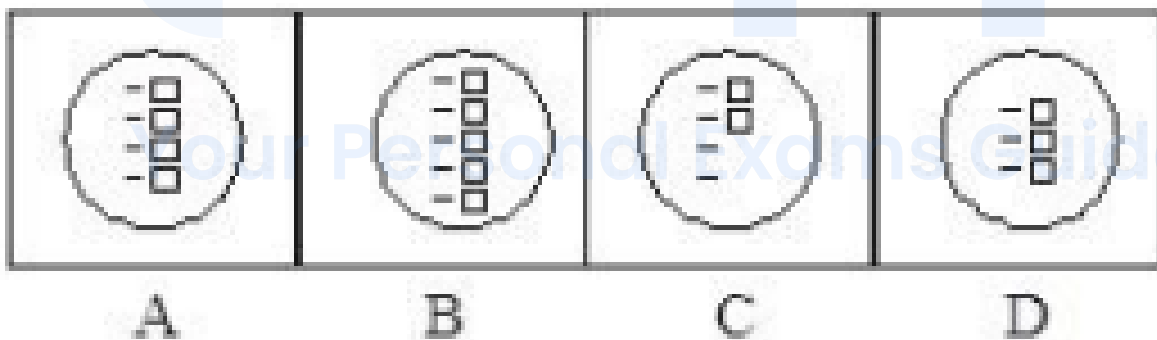
Should small countries like Nepal not have defence forces?

Arguments:

1. No, other countries do not rely on non-violence.
2. Yes, many people of Nepal are peace-loving and preachers of non-violence.

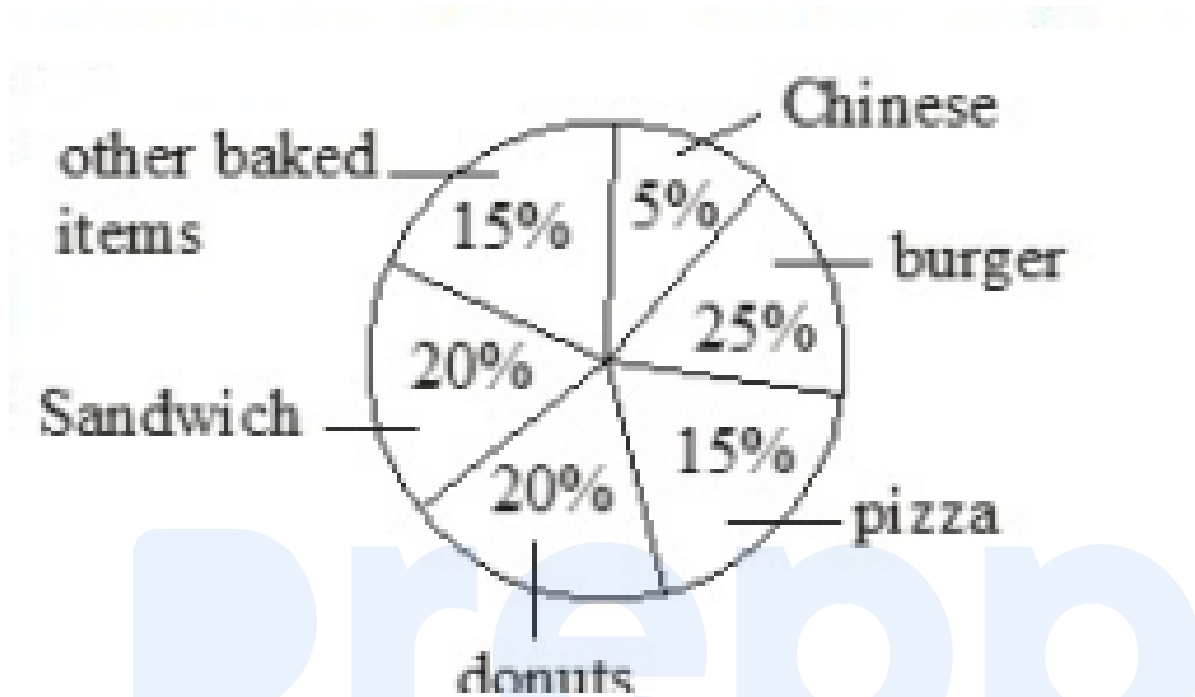
- a. Only statement 1 is strong
- b. Only statement 2 is strong
- c. Either argument 1 or 2 is strong
- d. Neither 1 nor 2 is strong

6. Out of the four figures given below, three are similar in some way, while one is not. Select the figure that is different from the others. (+1, -0.33)



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

7. The chart below gives information about the sale of various food items in restaurant 'XYZ': (+1, -0.33)



In November 2017 the total sales of the restaurant were Rs. 35 lakh. How much income did restaurant 'XYZ' get from the sale of sandwiches in November 2017?

- a. 6 lakh
 - b. 7 lakh
 - c. 3 lakh
 - d. 5.25 lakh
8. XYZ is a right-angled triangle with angle $X = 90^\circ$. The length of side XY is 6 cm and the length of side YZ is 10 cm. If the centre of the incircle of triangle XYZ is C, find the area in square centimetres of the region of the triangle outside the incircle. (+1, -0.33)

a. $20 - 2\pi$

b. $24 - 4\pi$

c. $20 + 2\pi$

d. $24 - 2\pi$

9. In 2018, who was awarded the Padma Vibhushan in the field of literature and education? (+1, -0.33)

a. Ramoji Rao

b. Girija Devi

c. P. Parameswaran

d. K. Vishwanath

10. Select the option that relates to the third word in the same way as the second word relates to the first word. (+1, -0.33)

Earth : Ball :: Pancake : _____

a. Flat

b. Disc

c. Soccer

d. Flag

11. Given below is 1 statement and two assumptions. Decide which assumption is implicit in the statement. (+1, -0.33)

Statement:

Many young people suffer from stress-induced diabetes.

Assumptions:

I. Stress can cause diabetes

II. Only stress causes diabetes

a. Both I and II are implicit

b. Only II is implicit

c. Neither I nor II is implicit

d. Only I is implicit

12. A train 152.5 m long running at a speed of 57 km/hr crosses a platform in 39 s. What is the length of the platform? (+1, -0.33)

a. 617.5 m

b. 590 m

c. 480 m

d. 465 m

13. On the basis of acidity, which of the following is correct? (+1, -0.33)

a. Turns red litmus blue

b. Conducts electricity in aqueous and molten state

c. Introduces OH into the aqueous medium / in molten state

d. Shows neutralisation

14. Which of the following statements about sound and light waves is correct? (+1, -0.33)

- a. Both are transverse waves.
 - b. Sound wave is a longitudinal wave but light wave is transverse.
 - c. Sound wave is a transverse wave but light wave is longitudinal.
 - d. Both are longitudinal waves.
-

15. If a ball is thrown upwards with an initial velocity of 25 m/s , how long will it take to reach its highest point? The value of g may be taken as 10 m/s^2 . (+1, -0.33)

- a. 2.5 seconds
 - b. 5 seconds
 - c. 50 seconds
 - d. 10 seconds
-

16. Saumya is the mother of Tanu's only brother. Preetam is the only son of Tanu's father. What is Saumya to Preetam? (+1, -0.33)

- a. Mother
- b. Grandmother
- c. Cousin sister
- d. Aunt

17. The SI unit $\text{Nm}^2\text{kg}^{-2}$ belongs to _____. (+1, -0.33)

- a. Acceleration due to gravity
- b. Momentum
- c. Universal gravitational constant
- d. Pressure

18. In 2017, Krishna Sobti received the honour of a distinguished Indian. What is she known for? (+1, -0.33)

- a. Great Sufi musician
- b. Renowned Hindi littérateur
- c. Distinguished professor at the National Institute of Design (NID)
- d. Famous mathematician

19. Find the value of: (+1, -0.33)

$$10 + \{26 - 15 \times (20 - 5 \div 2 \times \overline{7 - 5})\} = ?$$

- a. -189
- b. 198
- c. 189
- d. -198

20. Which life process converts chemical energy into thermal energy? (+1, -0.33)

- a. Nutrition
- b. Locomotion
- c. Excretion
- d. Respiration

21. $(-7)[44 \div \{7 - (-4)\}] = ?$ (+1, -0.33)

- a. -77
- b. -28
- c. 28
- d. 77

22. The angles of depression from an aeroplane to two points on a level road, both lying in the same direction, are 45° and 30° respectively. The distance between the two points is 1 mile (1.61 km). Find the approximate distance in kilometres of the aeroplane from the ground. (+1, -0.33)

- a. 1.8
- b. 2.2
- c. 2
- d. 2.4

23. The "Quit India Movement" took place in the year _____? (+1, -0.33)

- a. 1942
- b. 1945
- c. 1943
- d. 1944

24. A current of 2 A flows through a conductor whose two ends are at a potential difference of 4 V. The resistance of the conductor will be: (+1, -0.33)

- a. 0.5 ohm
- b. 2 ohm
- c. 8 ohm
- d. 1 ohm

25. $5 + \frac{1}{7} \times \{[-14 \times (25 - 15 - 5)] \div (22 - 6)\} = ?$ (+1, -0.33)

- a. 5
- b. 6
- c. 3
- d. 4.375

26. _____ is a payment transfer system launched by the Government of India to simplify payments. (+1, -0.33)

- a. State QR code
- b. Govt QR code
- c. India QR code
- d. Bharat QR code

27. When a current of 4 A flows through an electric heater from a source, the potential difference between its terminals is 60 V. If the potential difference is increased to 157.5 V, how much current will the heater draw? (+1, -0.33)

- a. 12 A
- b. 8.5 A
- c. 24 A
- d. 10.5 A

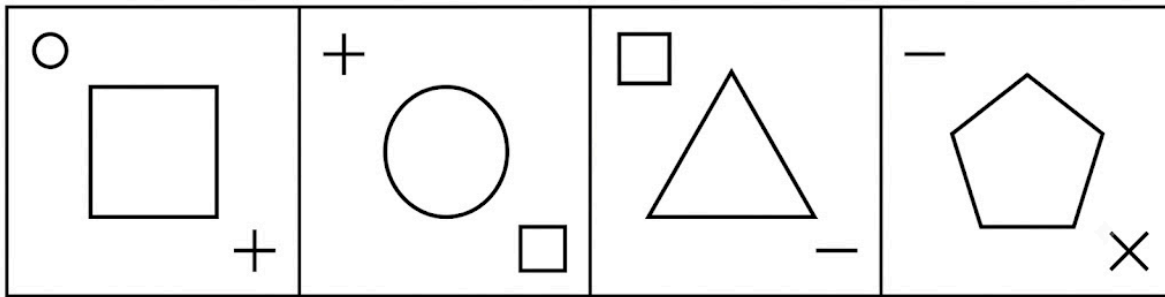
28. Solve the following: (+1, -0.33)

$$23 - 6 \times 2 + 21 \div 7 \times 3 - 4 \times 2 + 12 = ?$$

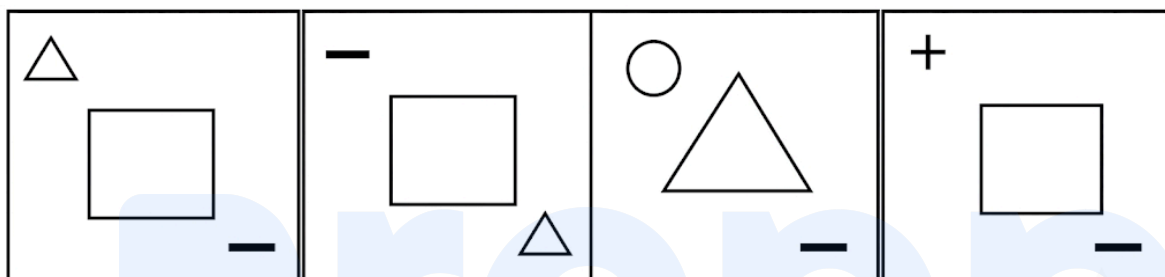
- a. 18
- b. 20
- c. 22
- d. 24

29. Choose the next figure in the question figure series from the answer figures: (+1, -0.33)

Question figures:



Answer figures:



A

B

C

D

a. A

b. D

c. C

d. B

30. Two pipes working alone can fill a tank in 42 hours and 56 hours respectively, while a third pipe can empty a full tank in 32 hours. If all three pipes are opened simultaneously when the tank is empty, how long will it take to fill the tank completely? (+1, -0.33)

a. 4 days 8 hours

b. 3 days 20 hours

- c. 4 days
- d. 2 days 18 hours

31. If '+' means '-', '×' means '÷', '÷' means '+', and '-' means '×', find the value of the following: (+1, -0.33)

$$400 \times 5 - 6 + 22 \div 75$$

- a. 560
- b. 540
- c. 533
- d. 600

32. Which of the following features in ESPN's list of the 100 most famous athletes in the world? (+1, -0.33)

- a. R. Ashwin
- b. Cheteshwar Pujara
- c. Virat Kohli
- d. Ravindra Jadeja

33. 32% of a number is 56. What is the number? (+1, -0.33)

- a. 190
- b. 200

c. 175

d. 180

34. Two varieties of common salt cost ₹7.20 and ₹4.40 per kg respectively. In what ratio should they be mixed so that selling the mixture at ₹6.30 per kg yields a profit of $\left(16 + \frac{2}{3}\right)\%$? (+1, -0.33)

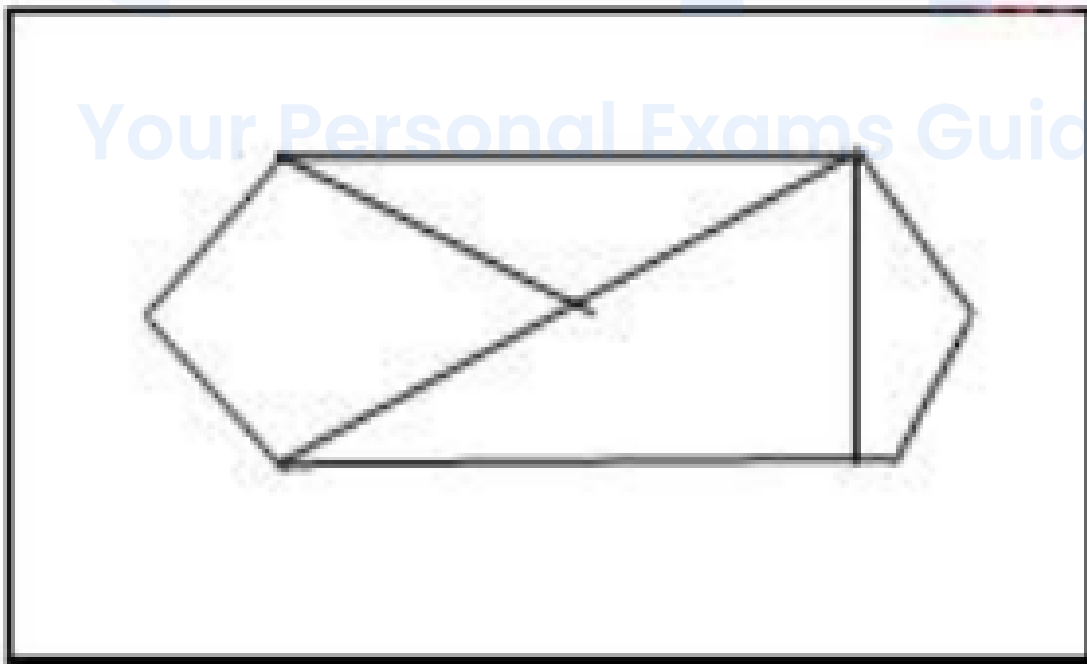
a. 5 : 9

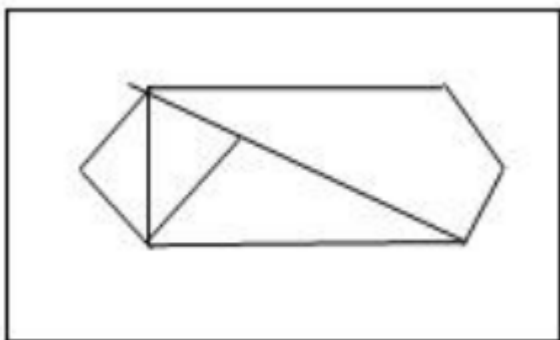
b. 5 : 4

c. 2 : 3

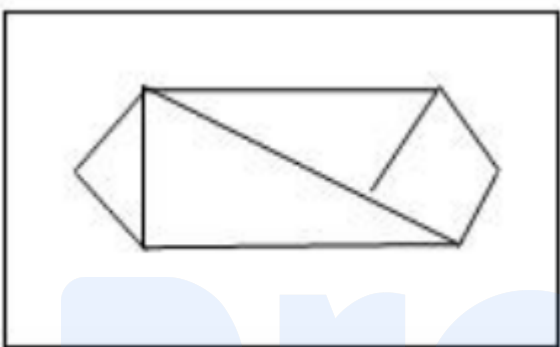
d. 1 : 3

35. Choose the correct mirror image of the following figure: (+1, -0.33)

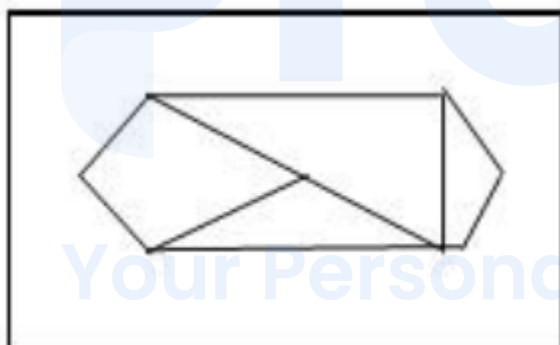




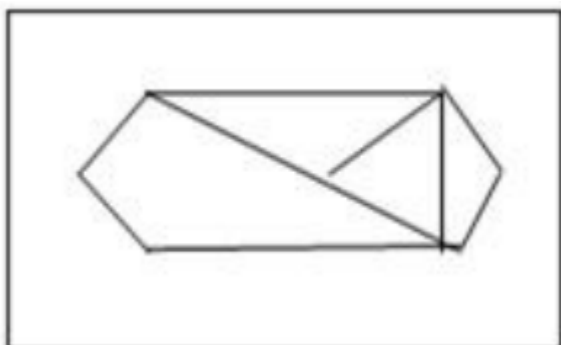
a.



b.



c.



d.

36. An object is moving forward with a uniform velocity of 4 ms^{-1} and its kinetic energy is 120 J. Find the mass of the object. (+1, -0.33)

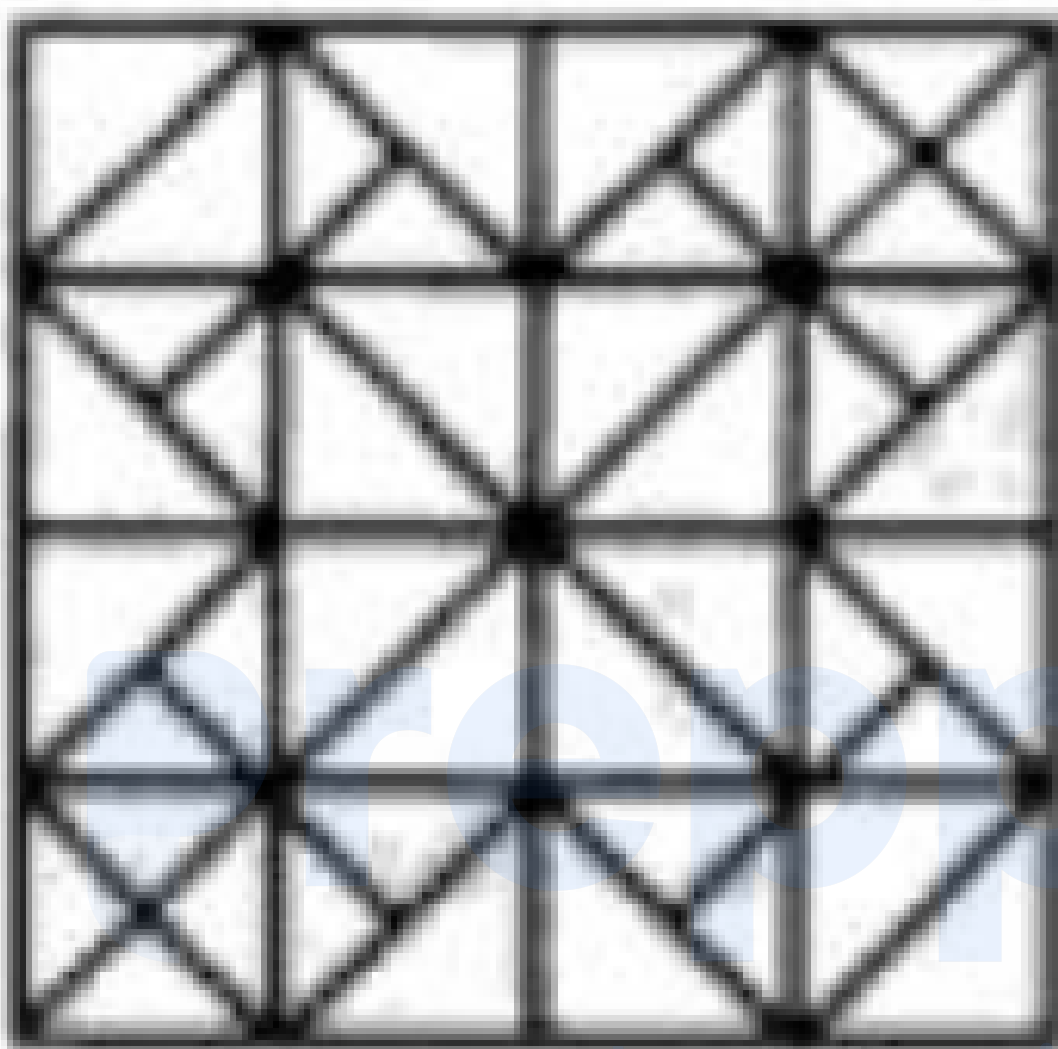
- a. 15 kg
- b. 30 N
- c. 30 kg
- d. 1.5 N

37. Which of the answer figures is embedded in the given question figure? (+1, -0.33)

Question figure:

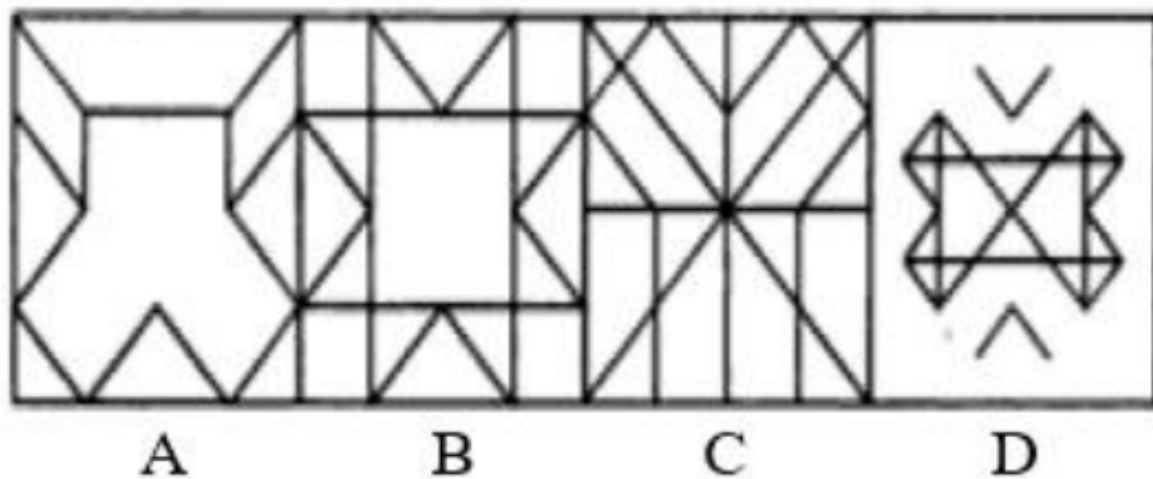
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Answer figures:



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

38. If East becomes North-East on the compass, what will West become? (+1, -0.33)

- a. South-East
 - b. East
 - c. South
 - d. South-West
-

39. Which of the following physical quantities measures the rate at which work is done? (+1, -0.33)

- a. Power
 - b. Velocity
 - c. Force
 - d. Energy
-

40. Roshan's present age is four years less than 2.5 times Usha's age. 12 years ago, Usha's age was one year more than one-fourth of Roshan's age. What is Roshan's present age (in years)? (+1, -0.33)

- a. 56

b. 54

c. 50

d. 48

41. Which of the following non-metals is lustrous? (+1, -0.33)

a. Chlorine

b. Neon

c. Fluorine

d. Iodine

42. The SI unit of _____ is the newton. (+1, -0.33)

a. weight and mass

b. weight and momentum

c. weight and acceleration

d. weight and force

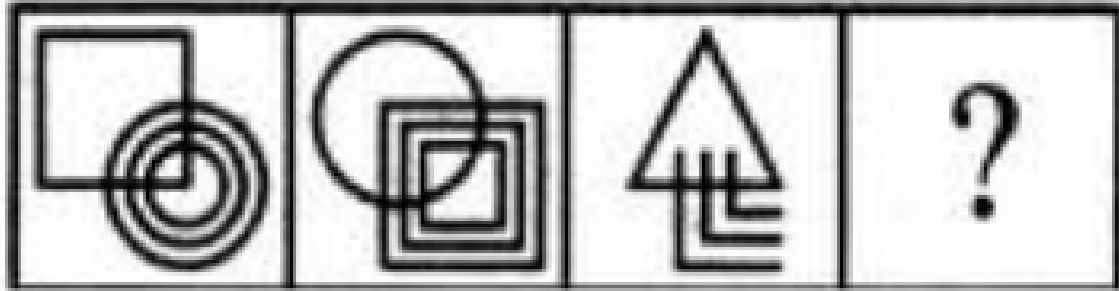
43. At the Oscars Scientific and Technical Awards 2018, _____ was (+1, -0.33)
honoured with the Scientific and Engineering Academy Award.

a. Romesh Bannas

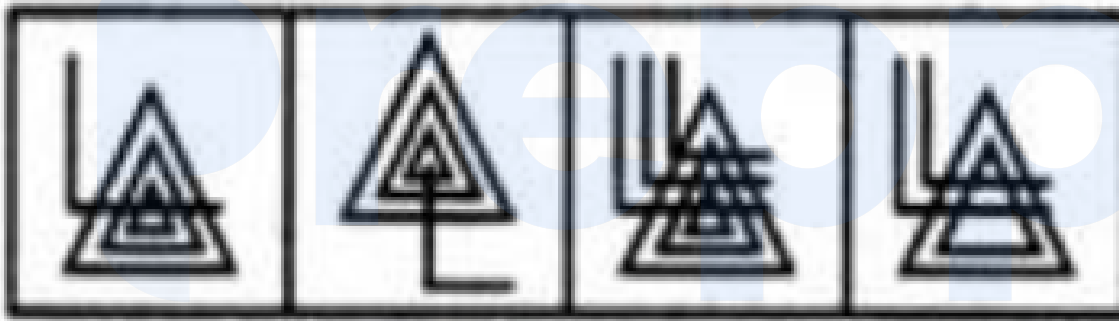
b. Suhas Patankar

c. Vikas Sathaye

d. Padmasree Warrior



44. Which of the following figures will replace the question mark (?) in the above figure series? (+1, -0.33)



A

B

C

D

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

45. How many factors of 729 are perfect squares? (+1, -0.33)

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

46. If 8, p and 17 are a Pythagorean triple, then the value of p will be: (+1, -0.33)

- a. 13
 - b. 14
 - c. 15
 - d. 9
-

47. Which of the following classifications was based on atomic masses? (+1, -0.33)

- a. Döbereiner, Newlands and Moseley
 - b. Döbereiner, Mendeleev and Moseley
 - c. Döbereiner, Newlands and Mendeleev
 - d. Mendeleev, Newlands and Moseley
-

48. Four numbers a , b , c and d are such that their overall average is 23. The average of a and b is 19.5. The average of c and d will be: (+1, -0.33)

- a. 27.5
- b. 24.5

c. 26.5

d. 25.5

49. Who was the Chief Minister of Jammu and Kashmir in 2017? (+1, -0.33)

a. Mehbooba Mufti Sayeed

b. Manohar Parrikar

c. Farooq Abdullah

d. Omar Abdullah

50. In which medium does light travel with the greatest speed? (+1, -0.33)

a. Water

b. Vacuum

c. Air

d. Glass

51. Who won the 2017 FIBA Asia Cup Basketball title? (+1, -0.33)

a. Australia

b. New Zealand

c. South Korea

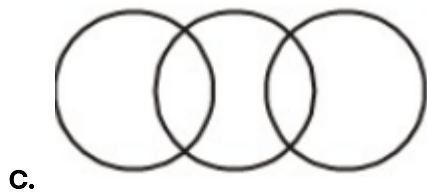
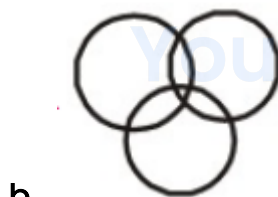
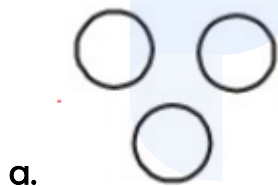
d. Iran

52. A works four times as fast as B, so he can finish a piece of work 60 days earlier than B. If they work together, in how many days can the work be completed? (+1, -0.33)

- a. 21 days
- b. 22.5 days
- c. 16 days
- d. 25 days

53. Choose the appropriate Venn diagram for the following: (+1, -0.33)

Mobile, Laptop, Electronic devices



c.



d.

54. In which of the following tissues is a hard cell wall found? (+1, -0.33)

- a. Collenchyma
- b. Sclerenchyma
- c. Aerenchyma
- d. Parenchyma

55. The Brass City tourist location near Marchula on Kupa is set up in _____ in Uttarakhand. (+1, -0.33)

- a. Ranikhet
- b. Almora
- c. Moradabad
- d. Nainital

56. A rhombus whose perimeter equals that of a rectangle with sides 12 cm and 8 cm was made, and one of its angles was 120° . What was the area of the rhombus? (+1, -0.33)

- a. $\frac{100\sqrt{3}}{3} \text{ cm}^2$
- b. $50\sqrt{3} \text{ cm}^2$

c. $25\sqrt{3} \text{ cm}^2$

d. $40\sqrt{3} \text{ cm}^2$

57. Retardation is _____.

(+1, -0.33)

a. uniform acceleration

b. positive acceleration

c. variable acceleration

d. negative acceleration

58. ABCDEFGHIJKLMNOPQRSTUVWXYZ

(+1, -0.33)

If the positions of the letters in the above series are reversed, what will be the sixth letter to the right of the 18th letter from the left in the series?

a. A

b. D

c. B

d. C

59. A statement and two conclusions are given below. Study them and decide which of the conclusions are logical with reference to the given statement.

(+1, -0.33)

Statement:

A boy says to his friend, "Look at the sign on the road, it is a one-way street."

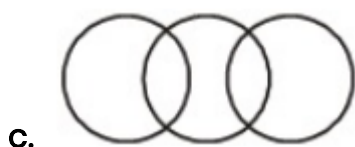
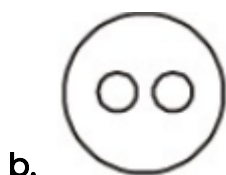
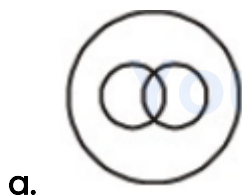
Conclusions:

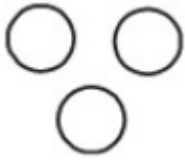
I. Driving is permitted only in the direction of the arrow marked on the signboard.

II. The boy has knowledge of road signs.

- a. Only conclusion I is logical
- b. Neither conclusion I nor II is logical
- c. Only conclusion II is logical
- d. Both conclusions I and II are logical

60. Choose the most appropriate Venn diagram for the following: (+1, -0.33)
"Train, Bus, Public Transport System"





d.

61. In recognition of her skill as a seasoned actress and her contribution to the film industry, who was honoured with the third 'National Yash Chopra Memorial Award 2016'?

(+1, -0.33)

- a. Sharmila Tagore
- b. Hema Malini
- c. Rekha
- d. Neetu Sharma

62. Study the following statements and conclusions and decide, based on them, which of the conclusions are logical with reference to the given statements?

(+1, -0.33)

Statements:

- All suns are moons.
- All moons are stars.

Conclusions:

1. All suns are stars.
 2. Some moons are suns.
- a. Both conclusions 1 and 2 are logical
 - b. Either conclusion 1 or 2 is logical

- c. Only conclusion 2 is logical
 - d. Only conclusion 1 is logical
-

63. A, B and C together can finish a work in 45 days. If only A and B worked they would have taken 54 days to do the work, and if only B and C worked they would have taken 90 days to finish the work. If B worked alone, how many days would he take to complete the work? (+1, -0.33)

- a. 130
 - b. 145
 - c. 125
 - d. 135
-

64. Find the next number in the given series: (+1, -0.33)

4, 17, 43, 82, ?

- a. 134
 - b. 120
 - c. 130
 - d. 132
-

65. As of February 2018, who among the following is the Information and Broadcasting Minister of India? (+1, -0.33)

- a. Prakash Javadekar

- b. Arun Jaitley
 - c. Venkaiah Naidu
 - d. Smriti Irani
-

66. The ratio of the present ages of Suresh and Chiraj is 5 : 4. After 3 years from now, the ratio of their ages will become 11 : 9. What is Chiraj's present age? (+1, -0.33)

- a. 24 years
 - b. 29 years
 - c. 26 years
 - d. 20 years
-

67. Saturated hydrocarbons are called _____. (+1, -0.33)

- a. Alkanes
 - b. Isotopes
 - c. Alkynes
 - d. Alkenes
-

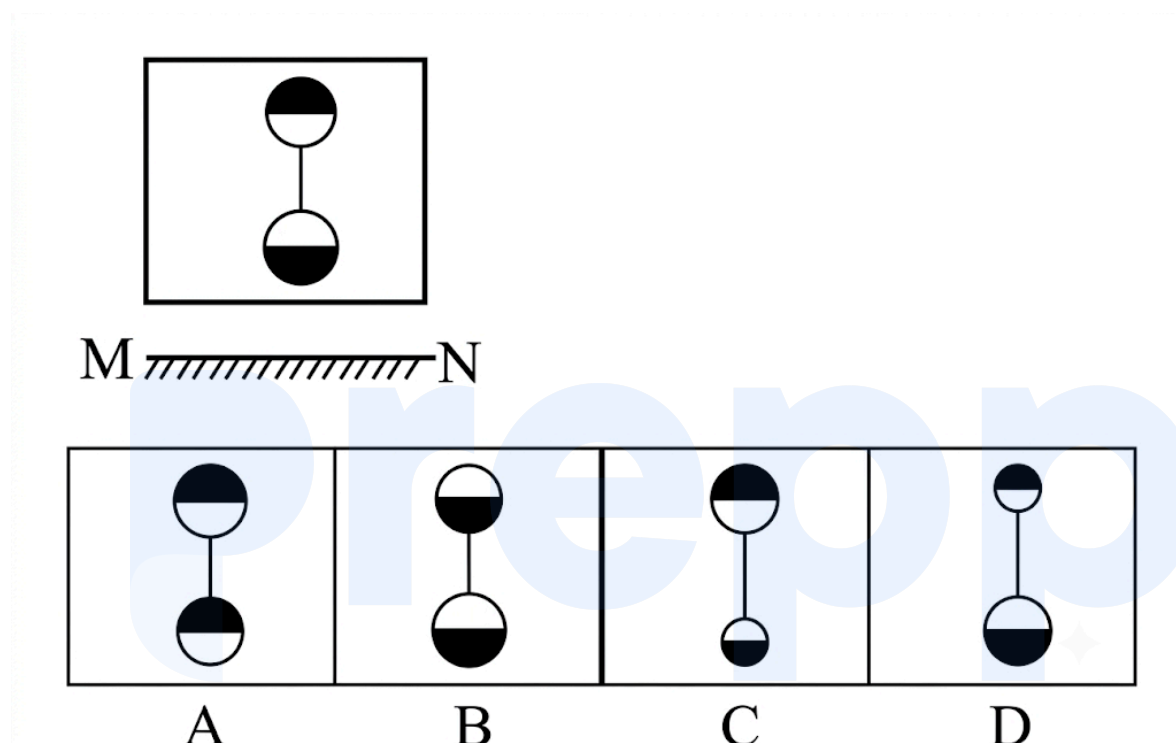
68. Who is the current Speaker of the Lok Sabha? (+1, -0.33)

- a. Meira Kumar
- b. Nitesh Kumar

- c. Venkaiah Naidu
- d. Sumitra Mahajan

69. Choose the water image of the following figure:

(+1, -0.33)



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

70. A solution has been prepared by dissolving 49 g of common salt in 320 g of water. Calculate the concentration of the solution by mass percent of the solute. (+1, -0.33)

- a. 13.05%
- b. 13.28 g
- c. 13.28%
- d. 11.36%

71. A human male gets his X sperm from his/her _____. (+1, -0.33)

- a. Mother
- b. Father
- c. Either from mother or father
- d. From both mother and father

72. Find the correct match. (+1, -0.33)

A) Zinc metal	i) Yellow
B) Smell of SO ₂ gas	ii) Grey
C) Colour of PbI ₂	iii) Pungent

- a. A-i, B-iii, C-ii
- b. A-iii, B-ii, C-i
- c. A-ii, B-iii, C-i
- d. A-iii, B-i, C-ii

73. Read the following statement and arguments and decide which of the arguments are strong with reference to the statement. (+1, -0.33)

Statement:

Students should work hard to pass the medical entrance examination.

Arguments:

- I. Yes, hard work is the mantra of success.
- II. No, if the students do not get a seat in a medical college, then they can go to a private college.
- a. Neither I nor II is strong
- b. Either argument I or II is strong
- c. Only argument II is strong
- d. Only argument I is strong

74. The Valley of Flowers National Park is an Indian national park situated in the western Himalayas in the state of _____. (+1, -0.33)

- a. Himachal Pradesh
- b. Uttarakhand
- c. Sikkim
- d. Jammu and Kashmir

75. Which of these refers to the sharp rise in the production of apples, particularly in the states of Himachal Pradesh and Jammu and Kashmir? (+1, -0.33)

- a. White Revolution
 - b. Green Revolution
 - c. Pink Revolution
 - d. Red Revolution
-

76. Find the next letter in the following series: (+1, -0.33)

A, D, G, J, M, ?

- a. R
 - b. B
 - c. W
 - d. P
-

77. An interest of ₹ 21 is received on ₹ 875 invested for 3 months. What was the annual rate of simple interest? (+1, -0.33)

- a. 2.40%
 - b. 7.20%
 - c. 9.60%
 - d. 12%
-

78. Ajay said, 'This girl is the wife of my mother's grandson.' How is Ajay related to that girl? (+1, -0.33)

- a. Father-in-law
 - b. Brother
 - c. Cousin brother
 - d. Aunt
-

79. The atomic mass of calcium is _____. (+1, -0.33)

- a. 40
 - b. 20
 - c. 23
 - d. 30
-

80. From the top of a platform 8 m high, the angle of elevation of a tower was 30° . If the platform is $40\sqrt{3}$ m away from the tower, how tall is the tower? (+1, -0.33)

- a. $20\sqrt{3}$ m
 - b. 40 m
 - c. 48 m
 - d. $30\sqrt{3}$ m
-

81. Read the given question and statements and decide which statements are sufficient to answer the question. (+1, -0.33)

Question:

What is the total number of students who passed the Class 10 examination?

Statements:

1. 80 percent of the students passed.
 2. The number of boys and girls among those who passed is the same.
- a. Neither 1 nor 2 is sufficient
 - b. 2 alone is sufficient while 1 alone is not sufficient
 - c. 1 alone is sufficient while 2 alone is not sufficient
 - d. Both 1 and 2 together are sufficient

82. _____ shifted his capital from Delhi to Devagiri, which he renamed Daulatabad. (+1, -0.33)

- a. Firuz Shah Tughlaq
- b. Muhammad-bin-Qasim
- c. Alauddin Khalji
- d. Muhammad-bin-Tughlaq

83. Aves includes: (+1, -0.33)

- a. Birds
- b. Mammals
- c. Aquatic animals

d. Fishes

84. In a code language, HEN is written as TWN. What will be the code for COCK? (+1, -0.33)

a. YVYQ

b. YMYQ

c. YMYP

d. YNYP

85. Who is the Leader of the Lok Sabha as of 2017? (+1, -0.33)

a. Arun Jaitley

b. Pranab Mukherjee

c. Sushma Swaraj

d. Narendra Modi

86. _____ is the first Indian woman to climb the peak of Mount Everest four times. (+1, -0.33)

a. Anshu Jamsenpa

b. Muhael Sharma

c. Madhusudan Patidar

d. Deepika Rathore

87. Choose the option that bears the same relationship with the third word as the second word has with the first. (+1, -0.33)

Want : Yearn :: Punish : _____

- a. Snub
- b. Reprimand
- c. Jail
- d. Shout

88. According to Dalton's atomic theory, which of the following statements is correct? (+1, -0.33)

- a. Atomic masses of atoms of the same element are different
- b. Atoms are indivisible particles of matter
- c. An atom is capable of being divided into protons, electrons and neutrons
- d. Atoms of the same element have the same mass and size but their chemical nature is not the same

89. You are given a question and 2 statements. Decide which statements are sufficient to answer the question. (+1, -0.33)

Question:

What is the value of x ?

Statements:

1) $A = \begin{bmatrix} 1 & 0 \\ 0 & 1 \end{bmatrix}$

2) $B = \begin{bmatrix} 1 & 2 \\ 2 & x \end{bmatrix}, AB = B$

- a. Only statement 2 is sufficient
- b. Both statements 1 and 2 together are not sufficient
- c. Either statement 1 or 2 is sufficient
- d. Only statement 1 is sufficient

90. The interest received on ₹ 250 at a simple interest rate of 4.5% per annum (+1, -0.33) in 2 years will be:

- a. ₹ 22.25
- b. ₹ 21.50
- c. ₹ 22.50
- d. ₹ 22.75

91. How many medals did India win at the 2017 Asian Junior Wrestling (+1, -0.33) Championships held in Taiwan?

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

92. Mallika walks 1 km towards the north, then turns right and walks 500 m. In which direction is she now from her starting position? (+1, -0.33)

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

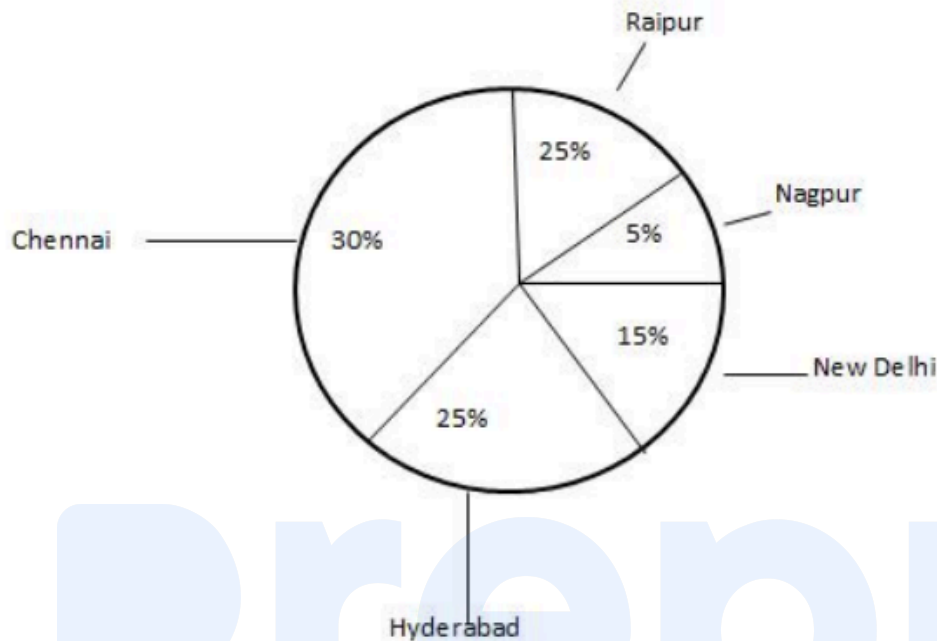
93. How many types of fission are there? (+1, -0.33)

- a. Two types
- b. Four types
- c. Three types
- d. Only one type

94. A receives $\frac{2}{5}$ of his father's property, out of which he donates $\frac{1}{3}$. If he donated ₹ 16,858, how much did he receive from his father's property? (+1, -0.33)

- a. ₹ 2,52,870
- b. ₹ 50,574
- c. ₹ 42,145
- d. ₹ 1,26,435

95. The following chart shows the rice consumption data of various states of India in 2012: (+1, -0.33)



If the total rice consumption in 2012 is 2 lakh tonnes, how much rice is consumed in Chennai alone?

- a. 60,000 tonnes
 - b. 1,00,000 tonnes
 - c. 10,000 tonnes
 - d. 20,000 tonnes
-
96. Which film won the 18th Best Film Award held in 2017? (+1, -0.33)
- a. Dangal
 - b. Rustom
 - c. Neerja

d. Bajirao Mastani

97. _____ energy has two types of energy within it. (+1, -0.33)

- a. Electrical
 - b. Chemical
 - c. Sound
 - d. Mechanical
-

98. A 'Banking Outlet' opens five days a week for a minimum of _____ hours per day. (+1, -0.33)

- a. 4
 - b. 7
 - c. 6
 - d. 5
-

99. A bag contains blue and red balls in a fixed ratio. When there were 84 red balls, the number of blue balls was 36. If the number of blue balls is 54, how many red balls should be in the bag? (+1, -0.33)

- a. 126
- b. 124
- c. 122
- d. 128

100. Choose the most suitable Venn diagram for the following:

(+1, -0.33)

Animal, Zebra, Rhinoceros

