



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 (29-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.

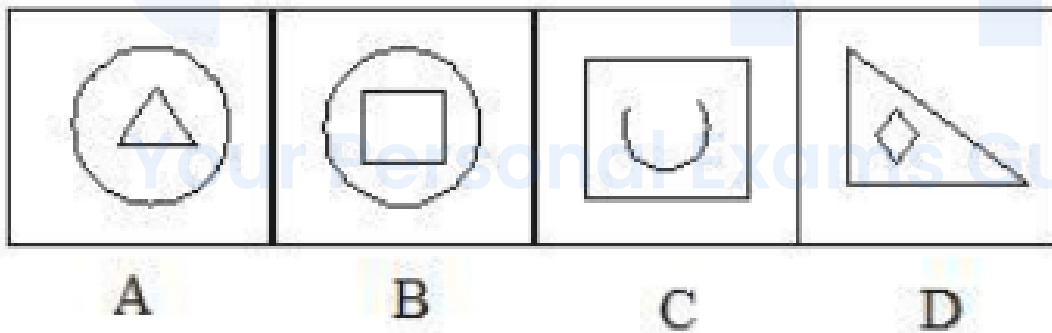
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Test

1. The angle of elevation of the top of a 36-m-tall tower from the initial position of a woman on the ground was 60° . She walked away from it such that the foot of the tower, her initial position and her final position were all in a straight line. The angle of elevation of the top of the tower from her final position was 30° . How much did she walk from her initial position? (+1, -0.33)

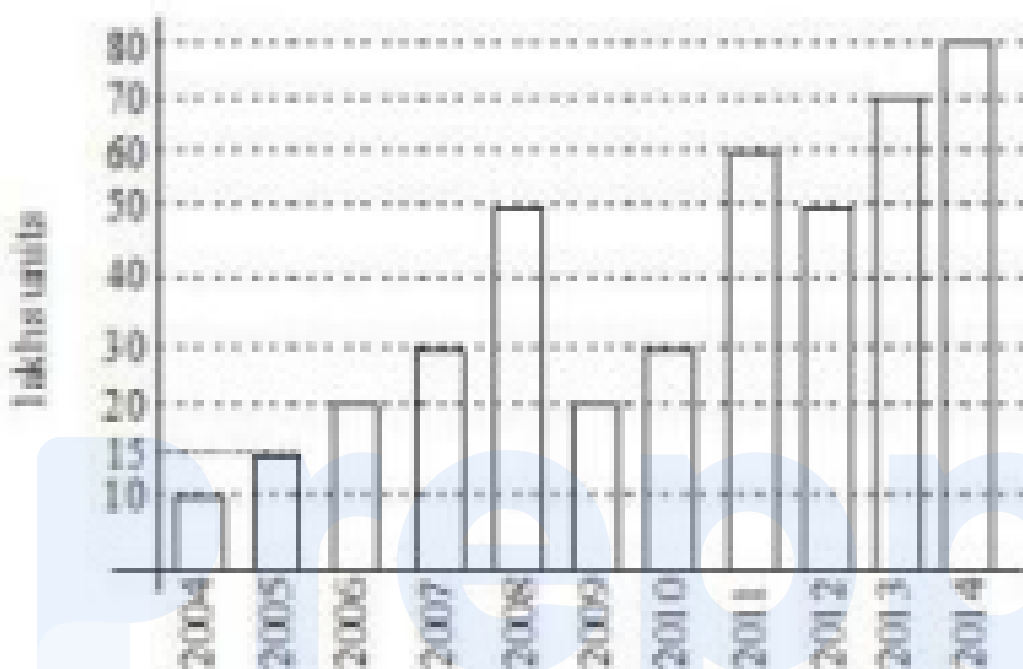
- a. $12\sqrt{3}$ m
- b. 24 m
- c. $24\sqrt{3}$ m
- d. $36\sqrt{3}$ m

2. Find the odd one: (+1, -0.33)



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

3. The following bar graph shows PCs sold by company XYZ in the last 10 years. During 2010–2014, in which year were sales maximum? (+1, -0.33)

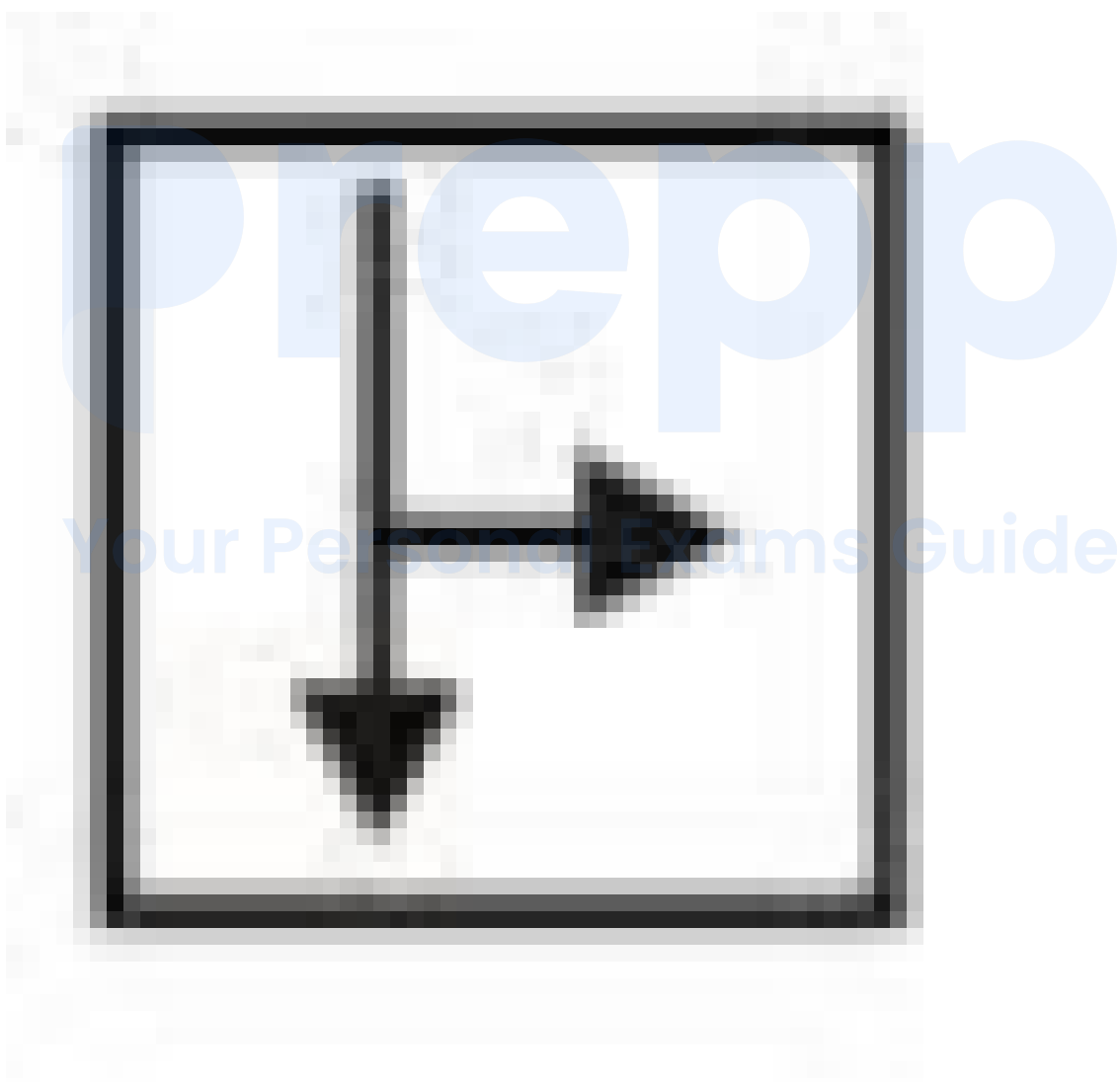


- a. 2010
- b. 2012
- c. 2014
- d. 2013

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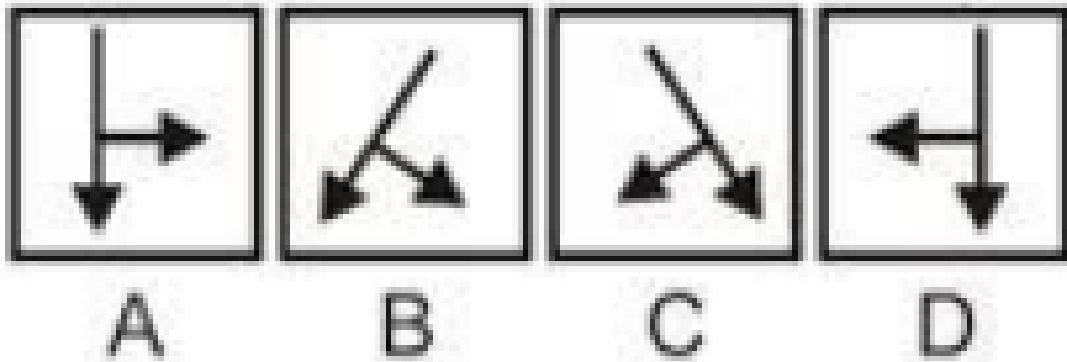
4. How does atomic size vary in the modern periodic table? (+1, -0.33)
- a. Atomic size increases from left to right in a period but decreases from top to bottom in a group.

- b. Atomic size decreases from left to right in a period but increases from top to bottom in a group.
 - c. Atomic size decreases from left to right in a period and from top to bottom in a group.
 - d. Atomic size increases from left to right in a period and from top to bottom in a group.
-



5. Select the mirror image of the above figure

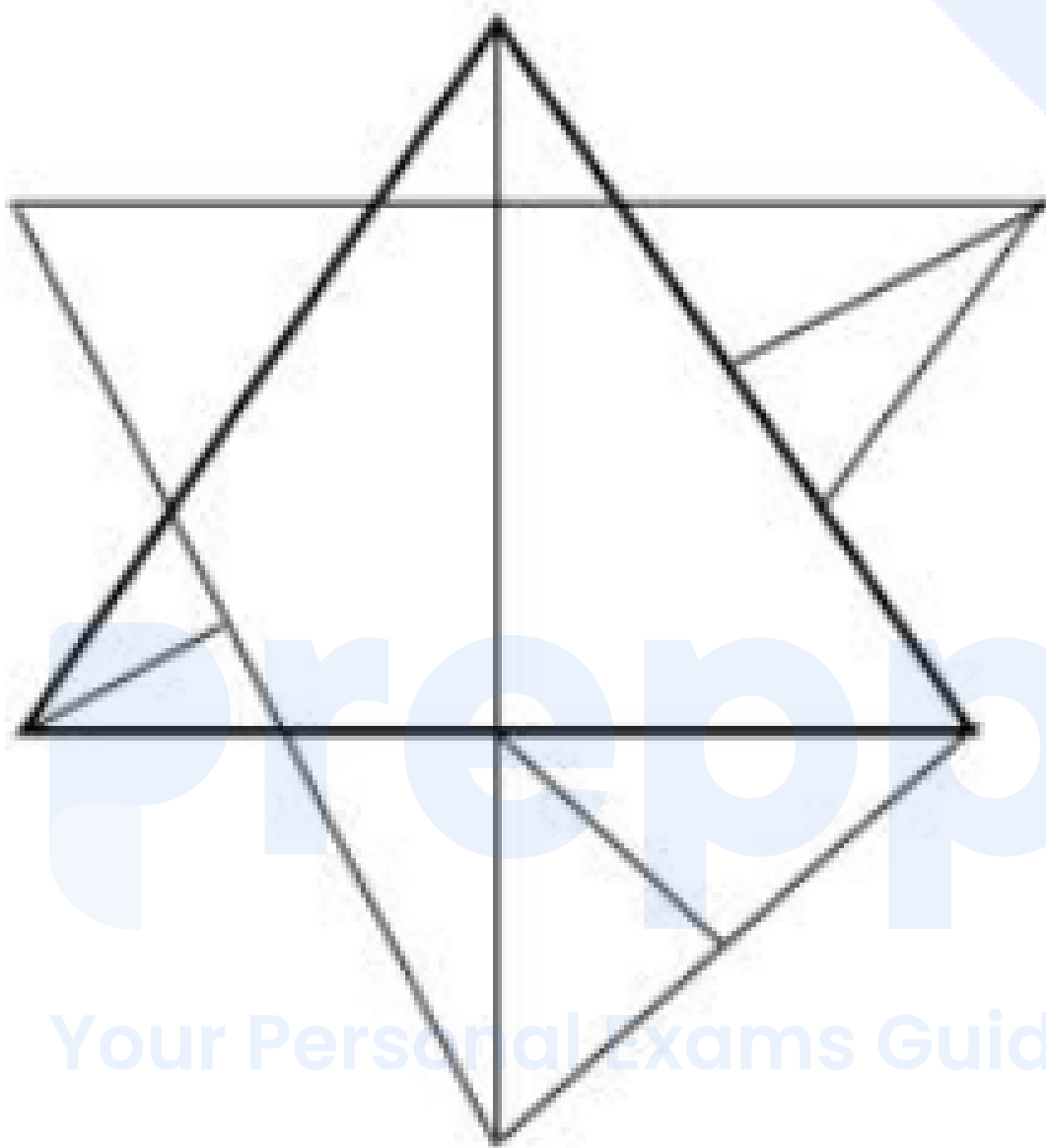
(+1, -0.33)



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

6. How many triangles are there in the figure?

(+1, -0.33)



- a. 19
- b. 22
- c. 20
- d. 15

7. Vishwa Mohan Bhatt was conferred the Padma Bhushan in 2017 for his contribution to which field? (+1, -0.33)

- a. Art and Music
 - b. Literature and Education
 - c. Space Science
 - d. Public Affairs
-

8. What is weight? (+1, -0.33)

- a. Weight can only be determined by a spring balance.
 - b. The force with which the Earth attracts an object towards its centre.
 - c. The weight of an object is a constant.
 - d. The weight of an object has a direction towards the Earth's centre; so it is a vector quantity.
-

9. Cabinet Minister Maneka Sanjay Gandhi currently holds which ministry? (+1, -0.33)

- a. Civil Aviation
 - b. Agriculture
 - c. External Affairs
 - d. Women and Child Development
-

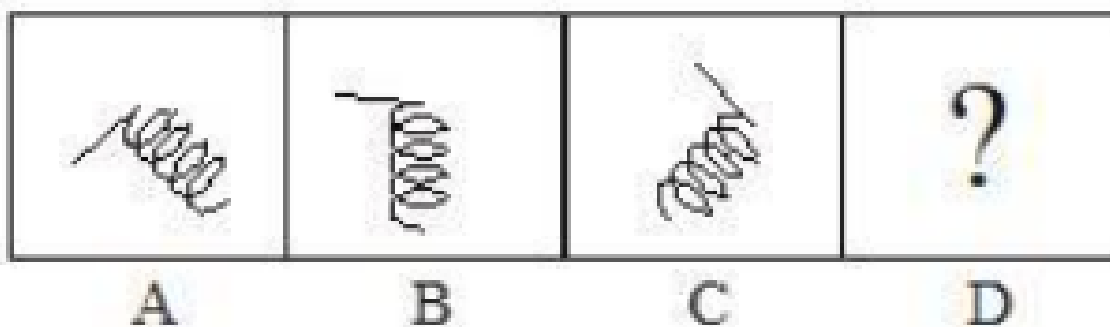
10. The weight of an object on Earth's surface is 6000 N. What will its weight be on the Moon's surface? (+1, -0.33)

- a. 1000 N
- b. 3600 N
- c. 1000 kg
- d. 3600 kg

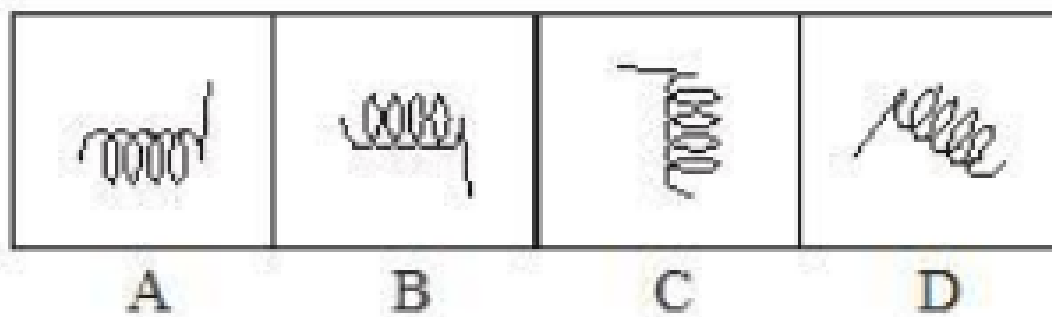
11. What is the reputed "Golden Peacock Award" conferred for? (+1, -0.33)

- a. Artistic Excellence
- b. Literary Excellence
- c. Corporate Excellence
- d. Educational Excellence

12. What will be the next figure in the following series? (+1, -0.33)
Question figures:



Option Figures:



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

13. The dimensions of a rectangular plot of land, given correct to the nearest integer, are 26 m and 14 m. What is the minimum possible perimeter of the rectangle? (+1, -0.33)

- a. 39 m
- b. 80 m
- c. 40 m
- d. 78 m

14. Find the values of a, b, c and d (in that order): (+1, -0.33)
 $8675 - ab49 = 48cd$

- a. 3, 8, 2, 8
- b. 3, 8, 2, 4

c. 3, 8, 2, 6

d. 3, 4, 2, 6

15. Who was conferred the Padma Vibhushan in the Literature and Education category in 2018? (+1, -0.33)

a. Parameswaran Parameswaran

b. Philipose Mar Chrysostom

c. M. K. Sanu

d. Amrendra Chakravarty

16. Which of the following plants reproduces asexually by forming adventitious buds on its leaves? (+1, -0.33)

a. Bryophyta

b. Canna

c. Bryophyllum

d. Chrysanthemum

17. If $\backslash$ means +, # means -, @ means $\times$ and * means $\div$, what is the value of $14 \backslash 3 @ 2 \# 45 * 5$? (+1, -0.33)

a. 11

b. 10

c. 12

d. 9

18. What is the LCM of $\frac{3}{20}$, $\frac{9}{10}$ and $\frac{6}{5}$? (+1, -0.33)

a. $\frac{18}{20}$

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

c. 18

d. $\frac{3}{20}$

19. Which is the biggest period in the periodic table? (+1, -0.33)

a. 2nd

b. 8th

c. 1st

d. 6th

20. Find the LCM of 8 and 10. (+1, -0.33)

a. 40

b. 46

c. 42

d. 45

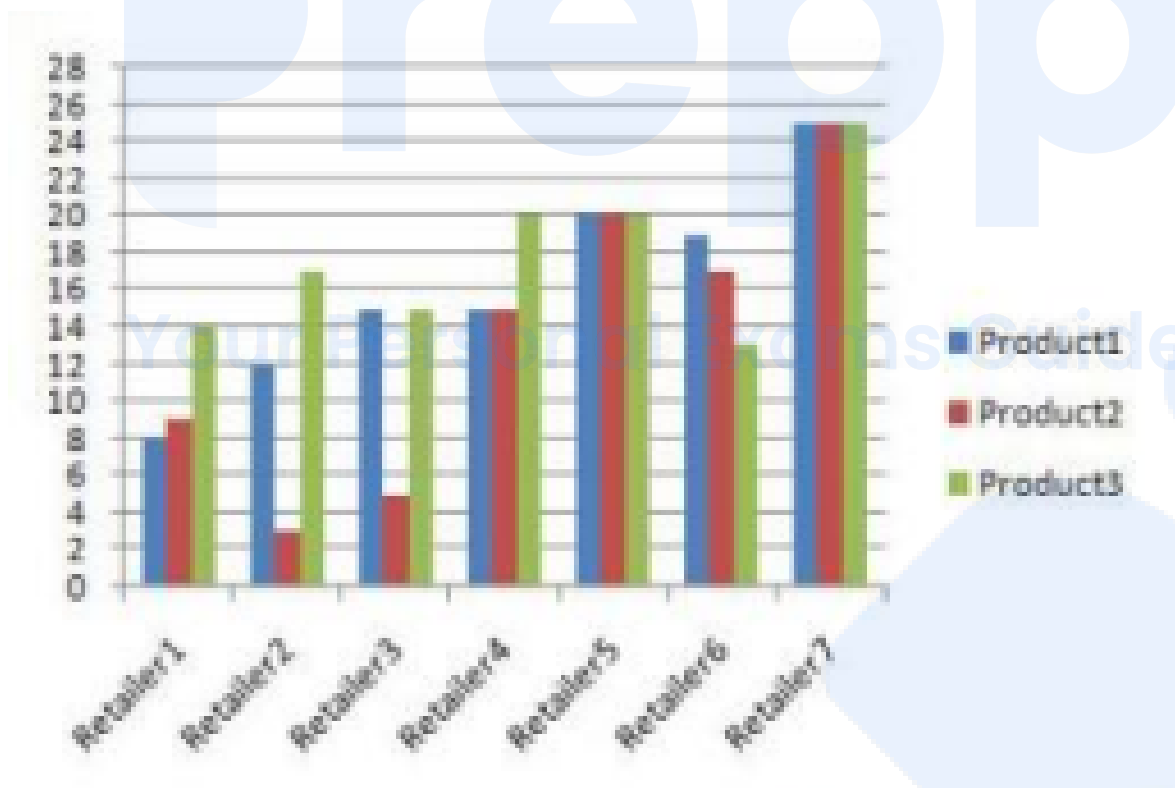
21. Find the next number in the series: (+1, -0.33)
4, 12, 22, 34, 48, ?
- a. 58
 - b. 52
 - c. 60
 - d. 64
-

22. The Delhi government signed a friendship agreement for cooperation in various fields with which country? (+1, -0.33)
- a. Singapore
 - b. Japan
 - c. Indonesia
 - d. England
-

23. H's age five years ago was more than twice P's age. P's current age equals one-third of S's age three years ago, while H's current age is $\frac{1}{2}$ of S's current age. What is the sum of the three persons' current ages? (+1, -0.33)
- a. 125 years
 - b. 160 years
 - c. 85 years
 - d. 117 years
-

24. Driving at 42 km/hr Nidhi reaches her destination 3 minutes early; driving at 39 km/hr she reaches 2 minutes late. What total distance did Nidhi cover? (+1, -0.33)
- 50 km
 - 45.5 km
 - 49.5 km
 - 48.5 km

25. Based on the given graph, which retailer offers all three products in the price range of ₹18 to ₹20? (+1, -0.33)



- Retailer 7
- Retailer 5

- c. Retailer 2
 - d. Retailer 3
-

26. What is the length of a table in table tennis? (+1, -0.33)

- a. 9 feet
 - b. 7 feet
 - c. 10 feet
 - d. 5 feet
-

27. Cuneiform script, one of the earliest systems of writing, was invented by the people of _____. (+1, -0.33)

- a. Sumer
 - b. India
 - c. China
 - d. Egypt
-

28. The Hathigumpha inscription from Udaygiri in Orissa was written by _____, the king of Kalinga during the second century BC. (+1, -0.33)

- a. Ashoka
- b. Kharavela
- c. Mukunda Deva

d. Raja Ramachandra Deva

29. W introduces A as the father of his father's sister. A is W's _____. (+1, -0.33)

- a. Maternal grandfather
 - b. Great-grandfather
 - c. Father
 - d. Paternal grandfather
-

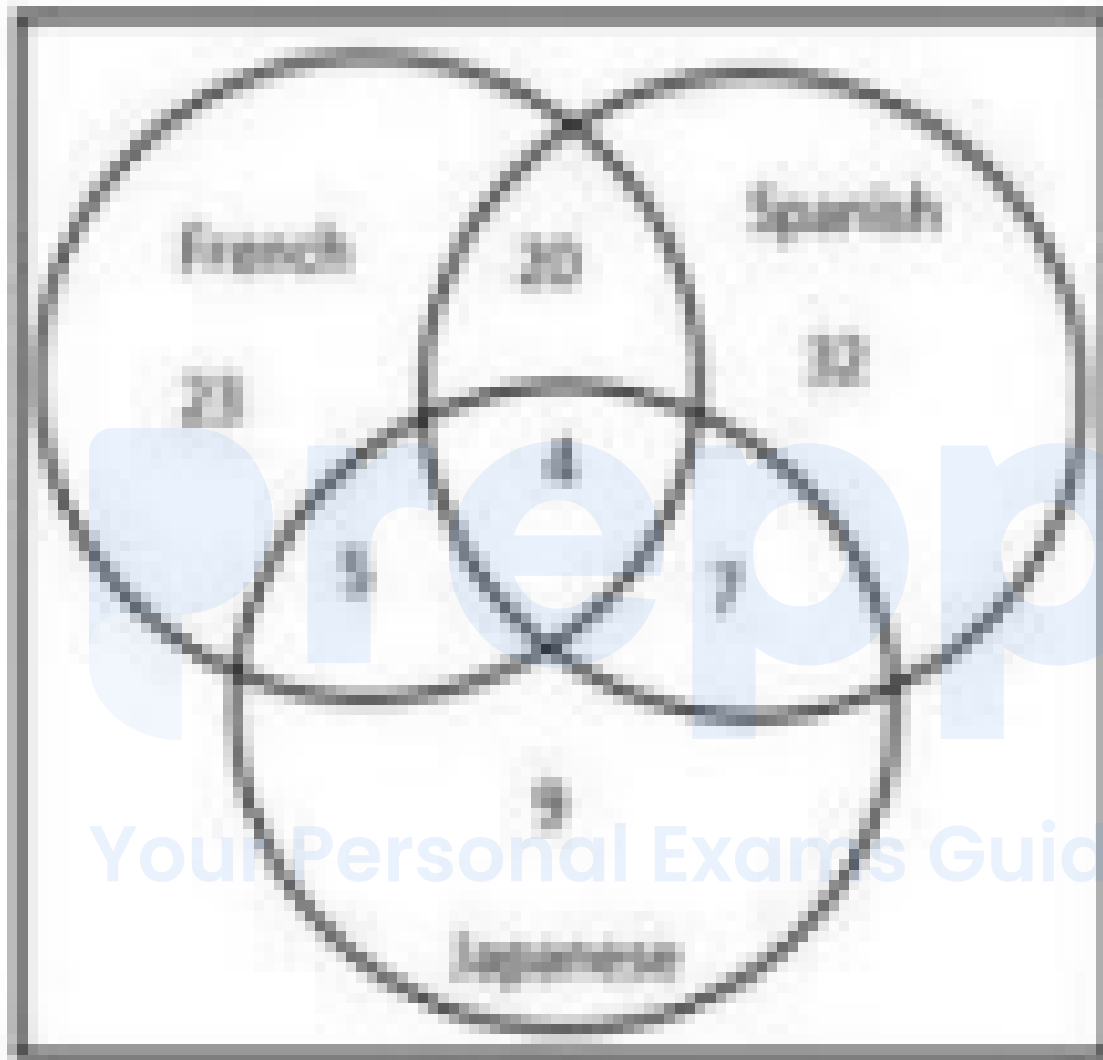
30. The regulation of pregnancy by preventive means using devices for controlling the number of offspring is called: (+1, -0.33)

- a. Birth control
 - b. Zygote
 - c. Ovary
 - d. Pregnancy
-

31. Kerala is a _____ coastal state of India. (+1, -0.33)

- a. Northeastern
 - b. Southeastern
 - c. Northwestern
 - d. Southwestern
-

32. The diagram represents the number of students in a class who study 3 languages. The number of students studying French and Japanese but not Spanish is: (+1, -0.33)



- a. 14
- b. 5
- c. 9
- d. 4

33. Mr X starts a marathon from point A. He runs 5 km north to B, then turns right and runs 6 km to C, turns right and runs 8 km to D, turns right and runs 10 km to E, turns right and runs 6 km to F, turns right and runs 1 km to G, turns right and runs 3 km to H. The shortest distance between C and A is: (+1, -0.33)

- a. $\sqrt{61}$
- b. $2\sqrt{61}$
- c. 61
- d. $3\sqrt{61}$

34. Which of the following is an energy source that is an alternative to conventional fossil fuels? (+1, -0.33)

- a. Petroleum
- b. Coal
- c. Nuclear material
- d. Natural gas

35. You are given a question and two statements. Identify which is/are necessary/sufficient to answer. (+1, -0.33)

Question: Neel has 15 pens of 3 different colours. How many green pens does he have?

Statements:

1. There are 3 red pens.
 2. The green and blue pens are equal in number.
- a. Statement 2 alone is sufficient
 - b. Statements 1 and 2 together are necessary
 - c. Statement 1 alone is sufficient
 - d. Statements 1 and 2 together are not sufficient

36. Identify the odd one from the given group of figures.

(+1, -0.33)

- a. 
- b. 
- c. 
- d. 

37. Consider the statement and the following arguments and decide which of the arguments is/are strong with respect to the statement. (+1, -0.33)

Statement:

Should alcohol be banned in our country?

Arguments:

I. Yes, banning alcohol will help easy rehabilitation of addicts

II. No, nothing should be banned in a democratic country

- a. Only argument II is strong
- b. Only argument I is strong
- c. Both arguments I and II are strong
- d. Neither I nor II is strong

38. For a number to be divisible by 3, the sum of its digits must be divisible by: (+1, -0.33)

- a. 1
- b. 6
- c. 3
- d. 9

39. If the resultant of applied forces is equal to zero, it is called which type of force? (+1, -0.33)

- a. Both balanced and unbalanced force

- b. Balanced force
- c. No force is applicable
- d. Unbalanced force

40. Parag deposited ₹675 in a bank at 8% simple interest per annum. How much interest will Parag get if the money stays for 5 years? (+1, -0.33)

- a. ₹275
- b. ₹300
- c. ₹270
- d. ₹280

41. Identify the professional boxer who hails from Kaluwas in Bhiwani district, Haryana, and is the current WBO Asia Pacific Super Middleweight Champion and WBO Oriental Super Middleweight Champion. (+1, -0.33)

- a. Vijender Singh
- b. Jitender Kumar
- c. Akhil Kumar
- d. Shiva Thapa

42. Which is a correct match of the below? (+1, -0.33)

- a. Methane: C_3H_8
- b. Butane: C_4H_{10}

c. Pentane: C_4H_8

d. Ethane: CH_6

43. The adjacent sides of the right-angle triangle are 5 cm and 12 cm respectively. Using the longer side of the triangle as the axis we form a right circular cone by fully rotating the triangle along its axis. Now, if we fill a right circular cylindrical container, whose radius is 5 cm, using water, what would be the height of the water in the container in centimeters? (+1, -0.33)

a. 12

b. 13.5

c. 12.5

d. 13

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

A. Rancid: When fats and oils are oxidised, they become rancid and their smell and taste change.

B. If the surface of a reactive metal is attacked by air, water or other substances around it, it is said to corrode and the effect is called displacement of reaction.

a. A and B are both true

b. Only B is true

c. A and B are both false

d. Only A is true

45. Which one of the following is NOT an example of work done? (+1, -0.33)

- a. Drawing a diagram in a notebook.
- b. Pushing a huge rock lying on a playground.
- c. Lifting cement bags from the ground and placing them one by one in a lorry.
- d. Pulling a toy car on the ground so that the trolley moves a distance.

46. If $\sqrt{2} = 1.4142$, what is the value of $\sqrt{\frac{2}{16}}$? (+1, -0.33)

- a. 0.35355
- b. 0.3452
- c. 0.389
- d. 0.4714

47. RBI mandates the banks to maintain a certain proportion between cash and their assets. This is known as: (+1, -0.33)

- a. Disinvestment rate
- b. Repo rate
- c. Statutory liquidity ratio
- d. Cash reserve ratio

48. Identify the alcohol from the following compounds. (+1, -0.33)

- a. CH_3OH
 - b. CH_3CO
 - c. CH_3COOH
 - d. CH_3Cl
-

49. The ages of X and Y are in the ratio 7 : 5 and the sum of their ages is 48 years. What will be the ratio of their ages after 4 years? (+1, -0.33)

- a. 3 : 4
 - b. 5 : 4
 - c. 7 : 6
 - d. 8 : 6
-

50. What is common among the following? (+1, -0.33)

- a. A stone kept at a height
- b. A stretched bow
- c. A stretched rubber band

- a. Kinetic energy
 - b. Potential energy
 - c. Static energy
 - d. Gravitational pull
-

51. Who was crowned Miss World 2017? (+1, -0.33)

- a. Ms Manushi Chhillar
- b. Ms Stephanie Del Valle
- c. Ms Demi-Leigh Nel-Peters
- d. Ms Nikita Chandak

52. As of February 2018, who was the captain of the Indian women's ODI cricket team? (+1, -0.33)

- a. Ekta Bisht
- b. Mithali Raj
- c. Sushma Verma
- d. Harmanpreet Kaur

53. Solve the equation: (+1, -0.33)

$$\frac{\sqrt{5}}{\sqrt{3}-\sqrt{2}} - \frac{3\sqrt{3}}{\sqrt{5}-\sqrt{2}} - \frac{\sqrt{8}}{\sqrt{5}+\sqrt{3}} = ?$$

- a. $-1/2$
- b. -1
- c. $1/2$
- d. 0

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

$$26 + 2 - 10 \div 4 \times 6.$$

- a. 47

- b. 45
- c. 58
- d. 50

55. The first three periods in the Modern Periodic Table are known as (+1, -0.33)

-----.

- a. Unity periods
- b. Long periods
- c. Short periods
- d. Zero periods

56. Read the statements and conclusions carefully and select which conclusion logically follows. (+1, -0.33)

Statements:

- I. All pearls are crystals.
- II. All crystals are solids.

Conclusions:

- 1. All pearls are solids.
 - 2. Some solids are crystals.
-
- a. Neither 1 nor 2 follows
 - b. Only conclusion 2 follows
 - c. Only conclusion 1 follows
 - d. Both 1 and 2 follow

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

Rod : Metal :: Flute : ?

- a. Sound
- b. Player
- c. Hole
- d. Bamboo

58. Which of the following statements about the speed of sound in different media at 25°C is/are true/false? (+1, -0.33)

- A. In helium gas, speed of sound is 965 m/s.
- B. In hydrogen gas, speed of sound is 1284 km/s.

- a. Only A is true
- b. Only B is true
- c. Neither A nor B is true
- d. Both A and B are true

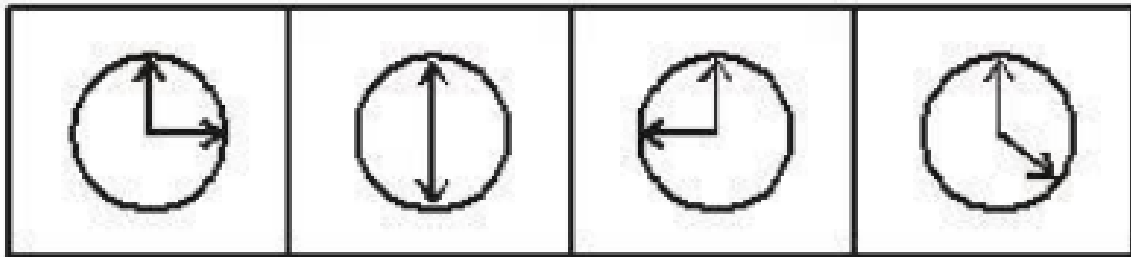
59. What day of the week was 31 May 1985? (+1, -0.33)

- a. Sunday
- b. Friday
- c. Wednesday

d. Thursday

60. Choose the odd one:

(+1, -0.33)



A

B

C

D

a. A

b. C

c. B

d. D

61. Who among the following has won a Nobel Prize in Economics?

(+1, -0.33)

a. APJ Abdul Kalam

b. MS Swaminathan

c. Manmohan Singh

d. Amartya Sen

62. Which of the following plants bear naked seeds?

(+1, -0.33)

a. Gymnosperms

- b. Angiosperms
 - c. Thallophyta
 - d. Pteridophyta
-

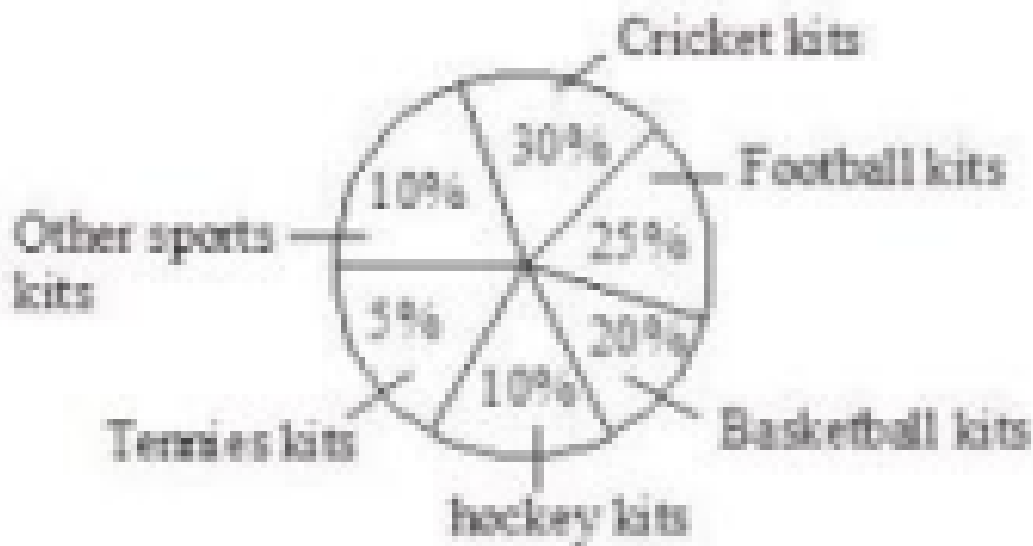
63. Who was elected unopposed as President of the Indian National Congress in December 2017? (+1, -0.33)

- a. Sonia Gandhi
 - b. Ghulam Nabi Azad
 - c. Priyanka Gandhi
 - d. Rahul Gandhi
-

64. Plants with one cotyledon exhibit _____ venation. (+1, -0.33)

- a. Triple
 - b. Double
 - c. Parallel
 - d. None
-

65. The following pie diagram shows information on the sale of sports kits by company XYZ. Total revenue during 2016 was ₹36,82,000. (+1, -0.33)



How much revenue (in ₹) was made by selling Basketball kits in 2016?

- a. 7,36,400
- b. 92,050
- c. 3,68,200
- d. 1,84,100

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66. A car starts from rest and moves with constant acceleration of 2m/s^2 for 30 seconds. Brakes are applied and the car takes 60 seconds to come to rest. What is the minimum distance from the starting point to the point when its speed becomes half its maximum speed? (+1, -0.33)
- a. 450 m
 - b. 900 m
 - c. 600 m
 - d. 225 m

67. The length, breadth and height of a room are 204 m, 144 m and 120 m respectively. Find the maximum length of a tape (in metres) that can be used to measure the room's dimensions. (+1, -0.33)

- a. 15
- b. 18
- c. 12
- d. 24

68. The power of a lens is 2.5 D. What is the focal length of that lens? (+1, -0.33)

- a. 0.004 m
- b. 4 m
- c. 0.04 m
- d. 0.4 m

69. If $\tan A = 8/7$, find $[(1 + \sin A)(1 - \sin A)] / [(1 + \cos A)(1 - \cos A)]$. (+1, -0.33)

- a. 46/64
- b. 49/64
- c. 36/64
- d. 39/64

70. What is the capital of Bhutan? (+1, -0.33)

- a. Bangkok
- b. Thimphu
- c. Yangon
- d. Kathmandu

71. Four animals are given below; three are alike in some way and one is different. Choose the odd one out. (+1, -0.33)

- a. The Hippo
- b. The Elephant
- c. The Rhino
- d. The Leopard

72. A solution contains 48 g of common salt in 320 g of water. Calculate the concentration in terms of mass by mass percentage of the solution. (+1, -0.33)

- a. 12.57%
- b. 13.04%
- c. 13.05 g
- d. 11.36%

73. Arrange 0.53, $\frac{2}{25}$, $\frac{7}{150}$ and $\frac{16}{75}$ in ascending order: (+1, -0.33)

- a. $\frac{2}{25}$, $\frac{7}{150}$, $\frac{16}{75}$, 0.53

- b. $7/150, 2/25, 0.53, 16/75$
- c. $7/150, 2/25, 16/75, 0.53$
- d. $7/150, 0.53, 2/25, 16/75$

74. Consider the statement and conclusions. Decide which is/are implicit. (+1, -0.33)

Statement: An advertisement reads: "Our organic-farm pulses are a brand that reflects the purity of nature."

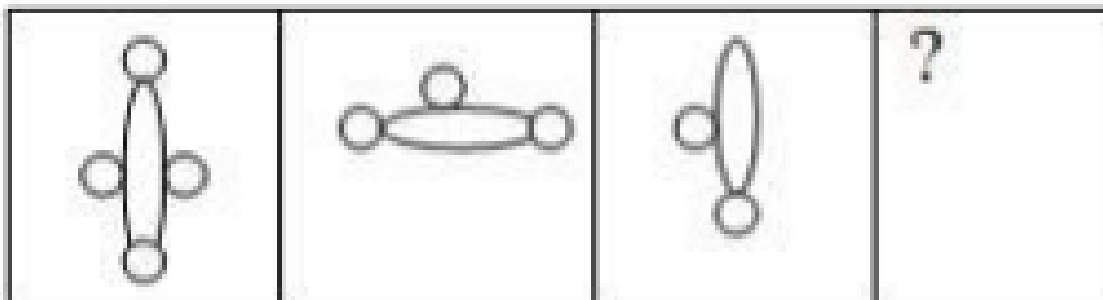
Assumptions:

1. The organic farming method preserves the purity of pulses.
2. Everything natural is pure.

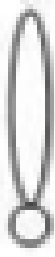
- a. Neither 1 nor 2 is implicit
- b. Only 1 is implicit
- c. Both 1 and 2 are implicit
- d. Only 2 is implicit

75. Select the option figure that will complete the question figure series. (+1, -0.33)

Question Figure:



Option Figures:

A	B	C	D
			

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

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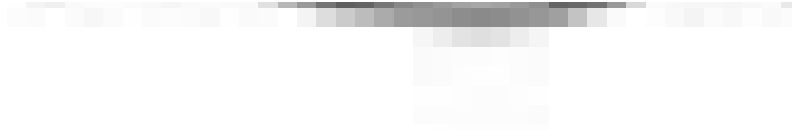
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76.

(+1, -0.33)

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Which of the following is the rotated image of the above figure?



A



B



C



D

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

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77. Count the number of squares in the figure.

(+1, -0.33)

- a. 10
- b. 12
- c. 13
- d. 11

78. A shopkeeper bought a radio for ₹140. He fixed its marked price to earn 25% profit but gave a 2% discount at the time of sale. What is his actual profit percentage? (+1, -0.33)

- a. $15\frac{1}{2}\%$
- b. $45\frac{1}{2}\%$
- c. $23\frac{1}{4}\%$
- d. $25\frac{1}{3}\%$

79. Utsa had to travel 285 km in 6.5 hours. Before completing the trip she drove at 58 km/h for 2.5 hours and then rested for 30 minutes. If Utsa reached on time, her speed during the last part of the journey was -----.

(+1, -0.33)

- a. 40 km/h
- b. 45 km/h
- c. 36 km/h
- d. 42.5 km/h

80. What would be the rate of compound interest in percentage to make a deposit 32 times in 5 years?

(+1, -0.33)

- a. 100
- b. 90
- c. 80
- d. 75

81. The statement is followed by arguments I and II. Decide which is a strong argument.

(+1, -0.33)

Statement: Should fruits and vegetables be part of the daily diet?

Arguments:

- I. Yes, fruits and vegetables supply nutrients essential to keep the body healthy.
- II. No, fruits and vegetables are so expensive that a common man cannot afford them.

- a. Only argument I is strong
 - b. Only argument II is strong
 - c. Both arguments are strong
 - d. Neither is strong
-

82. Sandhya is Raju's mother. How is Raju's only sister related to Sandhya? (+1, -0.33)

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

83. 1006, 998, 990, ... form an arithmetic progression. Which term will be the first negative one? (+1, -0.33)

- a. 129th term
 - b. 127th term
 - c. 128th term
 - d. 126th term
-

84. Free state or combined state refers to the states of: (+1, -0.33)

- a. Ore
- b. Gangue

- c. Metals
- d. Minerals

85. Consider the following statements to be true even if they seem to be at variance from commonly known facts and decide which conclusion logically follows. (+1, -0.33)

Statement:

Some monkeys are gorillas.
All gorillas are black.

Conclusions:

- 1. All monkeys are black.
 - 2. All gorillas are monkeys.
- a. Only conclusion 2 follows
 - b. Neither conclusion 1 nor 2 follows
 - c. Only conclusion 1 follows
 - d. Both conclusions 1 and 2 follow

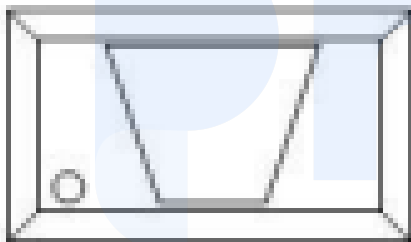
86. Raman's father is 3.2 times older than him. Nine years ago Raman's father's age was 6.5 times Raman's age. What is Raman's present age? (+1, -0.33)

- a. 14 years
- b. 13 years
- c. 12 years
- d. 15 years

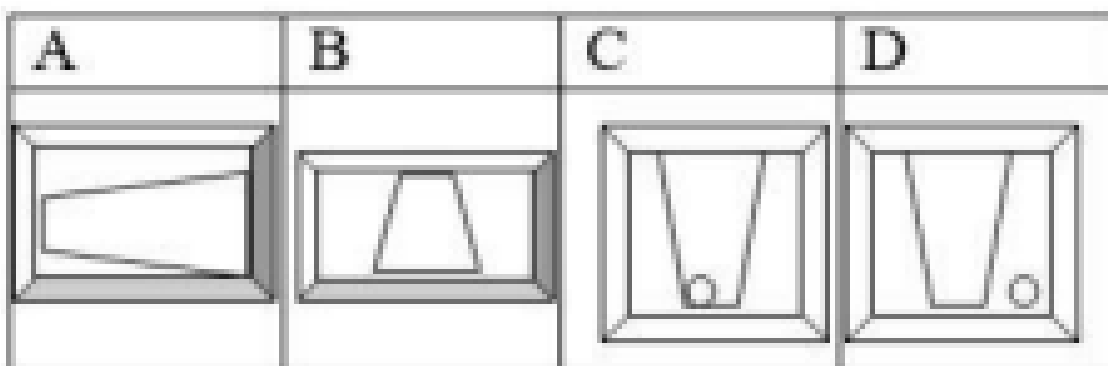
87. Identify the next term in the alphabet series: ABZY, CBZX, DBZW, _ _ _ _ (+1, -0.33)

- a. EBZV, FBZU
- b. EBZW, FBZW
- c. EBZX, FBZX
- d. EBZU, FBZT

88. Which of the following options bears the closest resemblance to the figure below? (+1, -0.33)



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- a. A
- b. D

c. B

d. C

89. How much work is done in transferring a charge of 5 C between two points with a potential difference of 12 V? (+1, -0.33)

a. 60 J

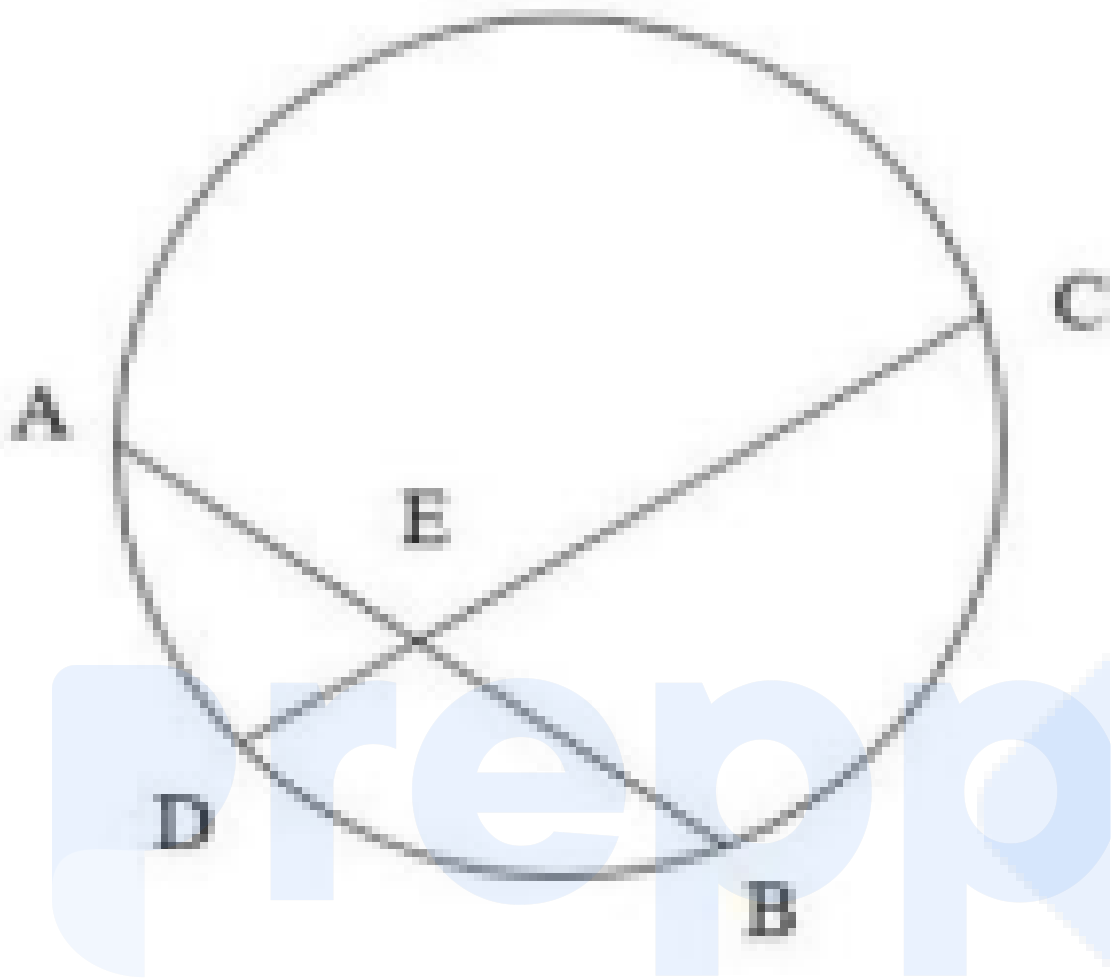
b. 2.5 J

c. 12 J

d. 6 J

90. In the circle above, $m_{AE} = 5$ cm, $m_{BE} = 4$ cm and $m_{CE} = 8$ cm. What is the value of m_{DE} ? (+1, -0.33)

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- a. 10 cm
- b. 2 cm
- c. 1 cm
- d. 2.5 cm

91. Which of the following Indian languages has been granted classical language status? (+1, -0.33)
- a. Bengali
 - b. Telugu

c. Assamese

d. Hindi

92. $M / V =$ (+1, -0.33)

a. Thrust

b. Pressure

c. Force

d. Density

93. In leaves, the food is stored in the form of _____. (+1, -0.33)

a. glycogen

b. starch

c. fructose

d. glucose

94. A and B can complete a task together in 15 days. If A works alone and completes $\frac{1}{2}$ of the task and then leaves the rest for B, it takes a total of 34 days. How many days would it take A (the more efficient of the two) alone to complete the entire task? (+1, -0.33)

a. 32

b. 24

c. 40

d. 28

95. At the end of 2017, the Indian High Commissioner to Pakistan was appointed as the new Indian Ambassador to the People's Republic of China. Name this veteran diplomat. (+1, -0.33)

a. Gautam Bambawale

b. Meera Shankar

c. Natwar Singh

d. Nirupama Rao

96. Palash is the state flower of ----- (+1, -0.33)

a. Jharkhand

b. Kashmir

c. Kerala

d. Punjab

97. A boy of mass 50 kg climbs 42 steps in 10 s. If each step is 15 cm high, find his power. Take $g = 10\text{ms}^{-2}$. (+1, -0.33)

a. 315 ms

b. 387.5 W

c. 315 J

d. 315 W

98. The statement is followed by arguments I and II. Decide which is strong. (+1, -0.33)

Statement:

Should the maximum age limit for politicians contesting elections be mandatorily set at 60 years?

Arguments:

- I. Yes, people lose enthusiasm after 60 years of age.
II. No, since medical facilities have improved, people remain enthusiastic till 70 years of age.

- a. Both I and II are strong
b. Neither I nor II is strong
c. Only argument II is strong
d. Only argument I is strong

99. Two pipes together can fill a large tank in 10 hours. When used alone, one pipe takes 15 hours more than the other to fill the tank. How long will each pipe take to fill the tank alone? (+1, -0.33)

- a. 20 hours and 5 hours
b. 25 hours and 10 hours
c. 35 hours and 20 hours
d. 30 hours and 15 hours

100. The mean of the data 3, 4, x, 9, 1, y, 5, 8 is 6, where x and y are constants. If x is replaced by $2x+1$ and y by $3y+2$, the mean increases by 4. Find x. (+1, -0.33)

- a. 6
- b. 10
- c. 9
- d. 7

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