



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 (22-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. Several people are employed to build a bridge over a river in a period of 4 years. At the end of the first year the number of workers decreased by 5%. This decrease repeats again at the end of the second year. However, to complete the bridge in time, the workforce was increased by 20% at the end of the third year. If the number of people working at the start of the fourth year is 2166, how many people were originally employed? (+1, -0.33)
- a. 2000
 - b. 2500
 - c. 1000
 - d. 1500
-
2. Which of the following reproduces by budding? (+1, -0.33)
- a. Amoeba
 - b. Plasmodium
 - c. Euglena
 - d. Hydra
-
3. Find the HCF of 2349, 2835 and 3078. (+1, -0.33)
- a. 3
 - b. 27
 - c. 81

d. 9

4. Study the given statement and choose which argument(s) is/are stronger. (+1, -0.33)

Statement:

Should a public bus transport company stop giving free travel passes to its employees?

Arguments:

1. Yes, this will benefit the company so it can provide better basic facilities to employees.

2. No, free travel is the right of employees.

a. Both arguments 1 and 2 are strong

b. Only argument 1 is strong

c. Only argument 2 is strong

d. Neither 1 nor 2 is strong

5. Find the distance between the two parallel sides of a trapezium if its area is 150 m^2 and the two parallel sides are 10 m and 15 m respectively. (+1, -0.33)

a. 12 m

b. 14 m

c. 10 m

d. 15 m

6. If the work done in moving a charge of 3 coulombs between two points is 72 J, what will be the potential difference between the points? (+1, -0.33)

- a. 216 V
- b. 24 V
- c. 2.4 V
- d. 240 V

7. 16 experts can complete a task in the same time as 28 trainees. 12 experts and 15 trainees complete a part of the work. In the same time, how many trainees would be required along with 8 experts to complete the same work? (+1, -0.33)

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

8. The power of a lens is inversely proportional to its _____. (+1, -0.33)

- a. focal length
- b. radius
- c. focus
- d. radius of curvature

9. A 12 kg object is placed at a certain height above the ground. If its potential energy is 480 J, find the height. Given $g = 10 \text{ ms}^{-2}$. (+1, -0.33)

- a. 8.03 m
- b. 8.73 m
- c. 4 m
- d. 7.73 m

10. Where was the 48th International Film Festival of India (IFFI) held? (+1, -0.33)

- a. Kolkata
- b. Goa
- c. Trivandrum
- d. New Delhi

11. Work done by gravity does NOT depend on which of the following? (+1, -0.33)

- a. the difference of change in initial and final positions of the object.
- b. the difference of horizontal positions of the object.
- c. the difference of vertical heights of initial and final positions of the object.
- d. the path along which the object moves.

12. The ratio of the sum of first 3 terms to the sum of first 6 terms of a GP is $(+1, -0.33)$
125:152. Find the common ratio.

- a. $5/3$
 - b. $3/5$
 - c. $4/5$
 - d. $5/4$
-

13. The product of two numbers is 120 and the sum of their squares is 289. $(+1, -0.33)$
Their sum is:

- a. 23
 - b. 26
 - c. 32
 - d. 28
-

14. Names of four birds are given below; three are related in some way and $(+1, -0.33)$
one is different. Select the odd one.

- a. Ostrich
 - b. Penguin
 - c. Vulture
 - d. Emu
-

15. A solution contains 44 g of common salt in 320 g of water. Calculate the concentration in mass by mass percentage. (+1, -0.33)

- a. 10.36%
- b. 11.36%
- c. 12.09%
- d. 12.09 g

16. Read the given statement and conclusions carefully and select which conclusion logically follows. (+1, -0.33)

Statement:

Talking to the players, the coach said, "Players need good rest the night before the actual game."

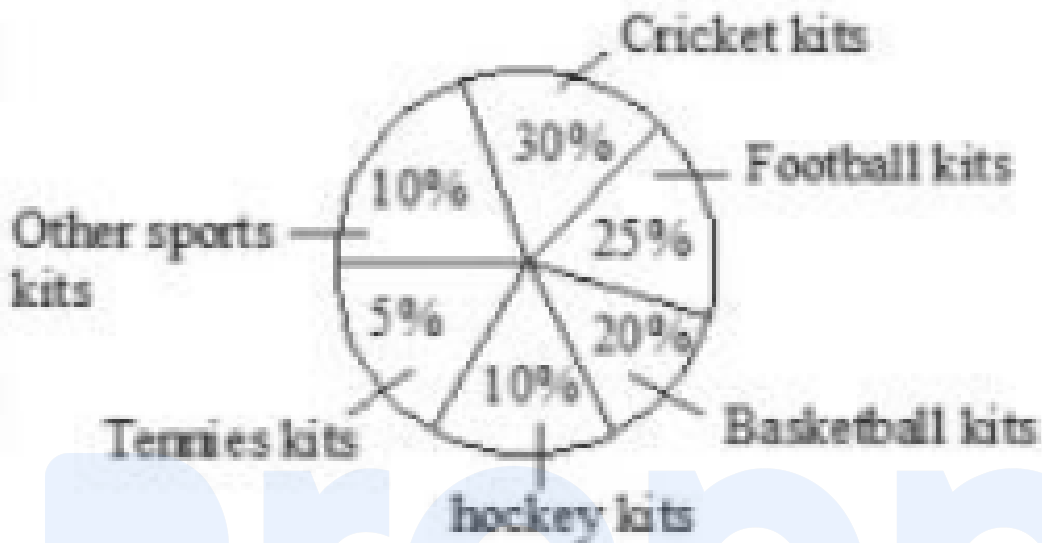
Conclusions:

- I. The coach is emphasising consistency of the players' routine so they focus easily on field.
- II. The coach is trying to say his players are tired and need rest to refresh again.

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

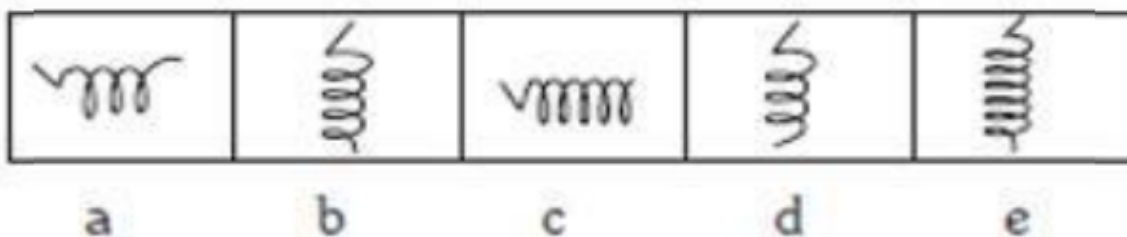
17. The following pie chart shows the sports goods sold by company 'XYZ'. Total revenue of the company in 2016 was ₹36,82,000. (+1, -0.33)

How much revenue (in ₹) did company 'XYZ' earn from selling "other sports goods" in 2016?



- a. 1,68,527
- b. 3,68,200
- c. 7,21,624
- d. 2,84,600

18. Choose the figure that is different from the others (from figures a, b, c, d, e). (+1, -0.33)



- a. a

b. d

c. e

d. c

19. Sandeep wears a watch. At 6:00 pm his watch's minute hand points North; (+1, -0.33)
in which direction will the hour hand point?

a. East

b. West

c. North

d. South

20. In a basket of fruits, 52% are lychees and 48% are kiwis. If they are 50 in (+1, -0.33)
count, what is the ratio of lychees to kiwis?

a. 21 : 18

b. 13 : 12

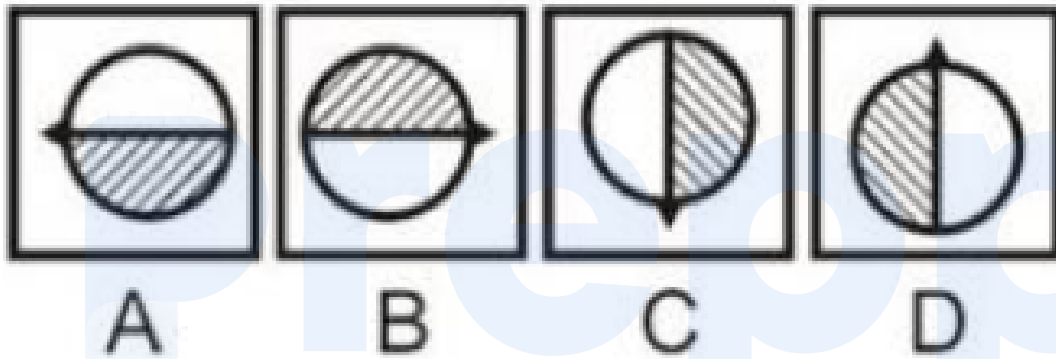
c. 16 : 14

d. 8 : 6

21. Identify the mirror image of the given figure if the mirror is placed to the (+1, -0.33)
right of the figure:



दर्पण आकृतियाँ:



a. D

b. C

c. A

d. B

22. What is the minimum value of X that makes $\frac{50}{x-14}$ an integer?

(+1, -0.33)

a. -36

b. 39

c. -11

d. -4

23. The three sides of a triangle are 8 cm, 13 cm and 15 cm. What is the ratio of the corresponding perpendicular heights (altitudes)? (+1, -0.33)

- a. 15 : 13 : 8
 - b. 28 : 23 : 21
 - c. 195 : 120 : 104
 - d. 104 : 195 : 120
-

24. If the weight of an object is 200 N, find its mass. ($g = 10 \text{ ms}^{-2}$) (+1, -0.33)

- a. 20 N
 - b. 20 W
 - c. 20 Pa
 - d. 20 kg
-

25. In an exam, 40 out of 85 students scored below 50%. The ratio of students scoring below 50% to those scoring 50% or above is: (+1, -0.33)

- a. 3 : 4
 - b. 9 : 8
 - c. 5 : 7
 - d. 8 : 9
-

26. Read the given statement and choose the strong argument. (+1, -0.33)

Statement:

Should government schools and colleges charge a minimum fee from students?

Arguments:

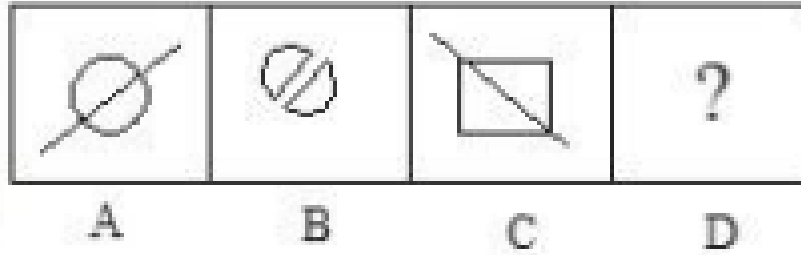
1. Yes, this will make parents and students value them.
2. No, this will force good but poor students to drop out.

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

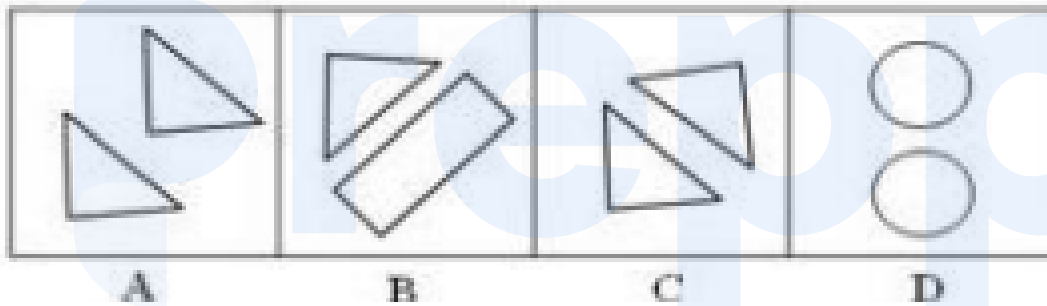
27. Select the figure that will replace '?' in the given series: (+1, -0.33)

Your Personal Exams Guide

प्रश्न आकृतियां:



उत्तर आकृतियां:

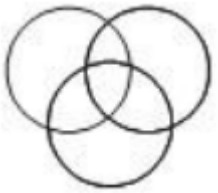
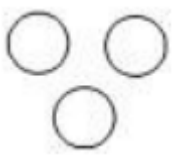


- a. C
- b. B
- c. D
- d. A

Your Personal Exams Guide

28. Choose the best Venn diagram for the following:
"Copper, Metal, Krypton"

(+1, -0.33)

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

29. Who was recently appointed as India's Chief Economic Adviser? (+1, -0.33)

- a. K. M. Abraham
- b. Arvind Subramanian
- c. Arvind Panagariya
- d. Raghuram Rajan

30. Which state government launched 'Operation Durga' to ensure women's safety? (+1, -0.33)

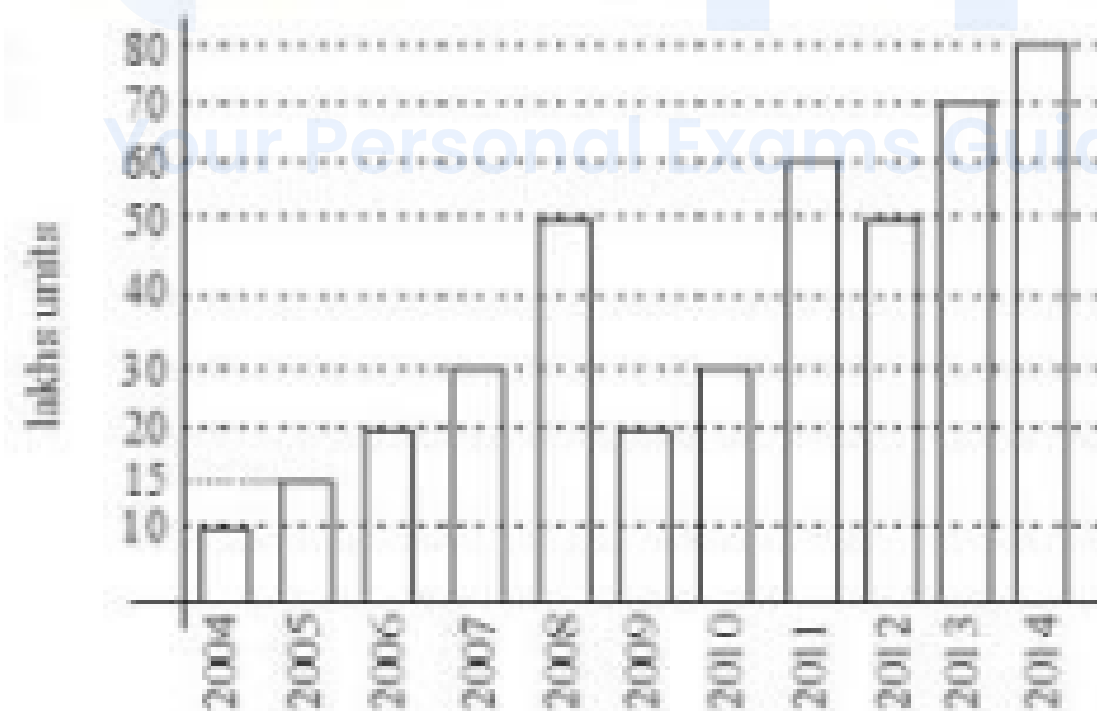
- a. Kerala
- b. Odisha

- c. Bihar
- d. Haryana

31. What was India's world ranking in female labour force participation in 2017? (+1, -0.33)

- a. 135/144
- b. 132/144
- c. 100/144
- d. 136/144

32. The bar graph below shows PCs sold by company 'XYZ' in the last 10 years. (+1, -0.33)
In which year did XYZ sell the most PCs (in lakh)?



- a. 2014
 - b. 2013
 - c. 2012
 - d. 2007
-

33. Read the given statements and conclusions and select which conclusion follows. (+1, -0.33)

Statements:

- I. All insects are small.
- II. Some animals are small.

Conclusions:

- 1. All small things are insects.
- 2. Some animals are insects.

- a. Only conclusion 2 follows
 - b. Both conclusions follow
 - c. Neither follows
 - d. Only conclusion 1 follows
-

34. If P's age is twice Q's, and the sum of their ages after 5 years is 70, find their current combined age (in years). (+1, -0.33)

- a. 40
- b. 30
- c. 50

d. 60

35. A sphere and a right circular cylinder have equal volumes. If their radii are also equal, find the ratio of the cylinder's radius to its height. (+1, -0.33)

a. 3 : 4

b. 1 : 2

c. 1 : 3

d. 4 : 3

36. _____ is never found as a free element in nature. (+1, -0.33)

a. Ca

b. Cu

c. Ag

d. Au

37. The three types of simple permanent tissues are: (+1, -0.33)

a. Parenchyma, Collenchyma and Meristem

b. Parenchyma, Companion cells and Sclerenchyma

c. Parenchyma, Collenchyma and Sclerenchyma

d. Phloem, Collenchyma and Sclerenchyma

38. What is the 12th term of the AP 142, 148, 154, ...? (+1, -0.33)

- a. 300
- b. 210
- c. 208
- d. 200

39. Where is the headquarters of the Reserve Bank of India (RBI)? (+1, -0.33)

- a. New Delhi
- b. Bengaluru
- c. Chennai
- d. Mumbai

40. If momentum (p) and velocity (v) are given, the formula to find mass (m) is: (+1, -0.33)

- a. $p + m$
- b. $p \times m$
- c. m/p
- d. p/v

41. Which of the following solutions has the lowest pH? (+1, -0.33)

- a. Blood
 - b. Pure water
 - c. Detergent
 - d. Lemon juice
-

42. Ashwini Ponnappa is famous for which sport? (+1, -0.33)

- a. Tennis
 - b. Golf
 - c. Cricket
 - d. Badminton
-

43. 117 balls are shared among A, B and C in the ratio 2 : 4 : 7. How many balls does A get compared to C? (+1, -0.33)

- a. 27 more
 - b. 27 fewer
 - c. 45 more
 - d. 45 fewer
-

44. Alia Bhatt was awarded Best Actor (Female) 2017 for which film? (+1, -0.33)

- a. Highway
- b. Dear Zindagi

- c. Uda Punjab
 - d. Student of the Year
-

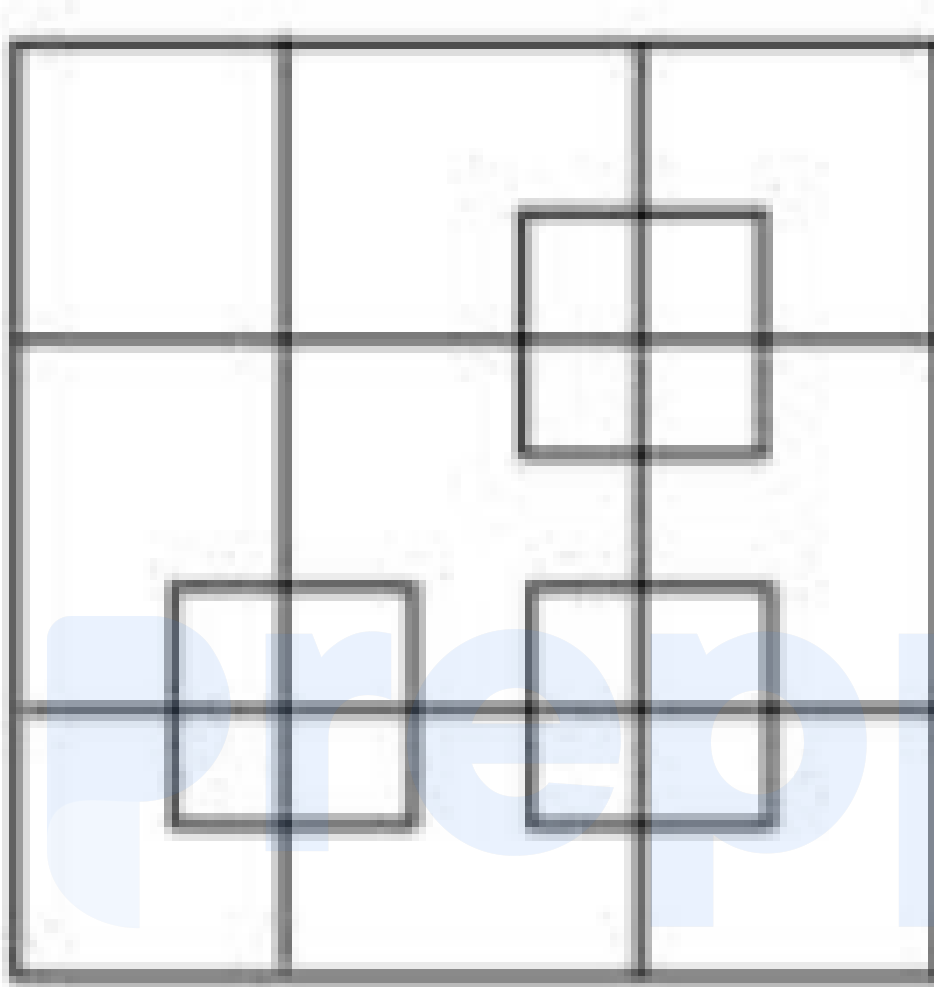
45. Pointing at a picture Geeta says, 'She is the only daughter of my maternal grandmother.' Who is she pointing to? (+1, -0.33)

- a. Her mother
 - b. Her aunt
 - c. Her sister
 - d. Her cousin
-

46. Select the odd one out: (+1, -0.33)

- a. G
 - b. K
 - c. F
 - d. A
-

47. How many squares are there in the figure below? (+1, -0.33)



- a. 28
- b. 27
- c. 32
- d. 29

48. Which of the following is true about the speed of sound in different media at 25 °C? (+1, -0.33)
- A. Speed of sound in steel is 5960 km/s.
 - B. Speed of sound in nickel is 6040 m/s.

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

49. Which Indian boxer won gold in the 49 kg category at the AIBA Youth World Boxing Championship 2018? (+1, -0.33)

- a. Naman Tanwar
 - b. Thokchom Nanao Singh
 - c. Sachin Siwach
 - d. Vikas Krishnan
-

50. Who took oath as Chief Minister of Bihar in August 2017? (+1, -0.33)

- a. Nitish Kumar
 - b. Sushil Kumar Modi
 - c. Pashupati Paras
 - d. Bijendra Prasad Yadav
-

51. Kalvakuntla Chandrashekar Rao is a leader of which political party? (+1, -0.33)

- a. Telugu Desam Party
- b. Praja Rajyam Party

- c. Telangana Praja Samithi
- d. Telangana Rashtra Samithi

52. You are given a question and four statements. Which statement(s) is/are (+1, -0.33) necessary/sufficient to answer the question?

Question:

A cupboard has 4 shelves. How many toys can be placed on shelf 2?

Statements:

- 1. Total toys = 15
 - 2. Shelf 1 can hold 5 toys
 - 3. Shelves 2 and 3 hold equal toys
 - 4. Shelf 4 can hold 2 toys
- a. Statements 2 and 3 together are sufficient
 - b. Statements 1 and 2 together are sufficient
 - c. All statements are insufficient
 - d. Statements 1, 2, 3 and 4 together are necessary

53. A uniform-width path of 2 m is built inside a square park. If the path's area (+1, -0.33) is 416 m^2 , find the area of the square park enclosed by the path.

- a. 2400 m^2
- b. 2200 m^2
- c. 2000 m^2
- d. 2500 m^2

54. An element with atomic number _____ will form a basic oxide. (+1, -0.33)

- a. 17
- b. 14
- c. 7
- d. 11

55. How much work is done in transferring a charge of 4 C between two points with a potential difference of 10 V? (+1, -0.33)

- a. 44 J
- b. 10 J
- c. 48 J
- d. 40 J

56. Which of the following elements are present in fuels like coal and petroleum? (+1, -0.33)

- a. N_2 and P
 - b. N_2 and S
 - c. Ca and P
 - d. S and P
-

57. The sum of four consecutive odd numbers is 144. What is the LCM of the first and last of these numbers? (+1, -0.33)

- a. 429
- b. 315
- c. 286
- d. 509

58. Select the word related to the third word in the same way as the second is related to the first. (+1, -0.33)

Shallow : Profound :: Synonym : ?

- a. Content
- b. Context
- c. Meaning
- d. Antonym

59. Which of the following simple fractions is NOT a terminating decimal when written in decimal form? (+1, -0.33)

- a. $\frac{27}{480}$
- b. $\frac{21}{640}$
- c. $\frac{240}{450}$
- d. $\frac{81}{450}$

60. In a certain code, RUST is written as UXVW. How will RAIN be written in that code? (+1, -0.33)
- a. UDLQ
 - b. DLUC
 - c. LUDE
 - d. UDLM
-

61. Which Indian state hosted the recently held 80th Senior National Table Tennis Championship? (+1, -0.33)
- a. Rajasthan
 - b. Odisha
 - c. Telangana
 - d. Karnataka
-

62. Find the smallest number that when added to 20000 makes the sum divisible by 12, 15 and 25. (+1, -0.33)
- a. 100
 - b. 180
 - c. 200
 - d. 150
-

63. If $\frac{\sec A + \tan A}{\sec A - \tan A} = 2 + \frac{51}{79}$, find the value of $\sin A$. (+1, -0.33)

- a. 65/144
- b. 130/256
- c. 43/76
- d. 23/68

64. The Khasi, Garo and Jaintia hills are located in: (+1, -0.33)

- a. Assam
- b. Meghalaya
- c. Sikkim
- d. Nagaland

65. The gravitational force acting on an object is called: (+1, -0.33)

- a. Impulse
- b. Tension
- c. Momentum
- d. Weight

66. An object weighs 60 N on Earth's surface. What will it weigh on the Moon? (+1, -0.33)

- a. 1 N

- b. 3.6 N
 - c. 10 N
 - d. 360 N
-

67. Which pair of atomic numbers belongs to the same group in the periodic table? (+1, -0.33)

- a. 14 and 33
 - b. 13 and 31
 - c. 11 and 20
 - d. 12 and 30
-

68. Read the given statement and its two arguments. Decide which argument is strong. (+1, -0.33)

Statement:

Should parents of the 21st century be given counselling on parenting?

Arguments:

- 1. Yes, this will help them build good personality in their children.
- 2. No, this is a waste of time in the process.

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

69. The number of people going past a shop is recorded for four different quarters. The following data is given. What is the average number of people going past the shop in all quarters? (+1, -0.33)

Quarter	Number of people
Quarter 1	2,000
Quarter 2	1,000
Quarter 3	3,500
Quarter 4	5,500

- a. 12,000
- b. 3,000
- c. 10,000
- d. 4,000
-
70. During winter in India cold waves are caused by winds coming from the ----- (+1, -0.33)
- a. Vindhya
- b. Western Ghats
- c. Himalaya
- d. Aravalli
-
71. What will replace the question mark (?) in this series? (+1, -0.33)
- 6P, 11Q, 17S, 24V, ?

- a. 30G
 - b. 32Z
 - c. 35C
 - d. 23A
-

72. Spandana scored 22 out of 50 in an exam. She has to take one more test and needs 56% overall to pass. If the second test carried 75 marks, what percent did she score in the second test? (+1, -0.33)

- a. 48
 - b. 60
 - c. 64
 - d. 54
-

73. Who played the lead actress in the film 'Bandit Queen'? (+1, -0.33)

- a. Seema Biswas
 - b. Huma Qureshi
 - c. Vidya Balan
 - d. Rekha
-

74. The growth of a plant part towards a specific stimulus is called: (+1, -0.33)

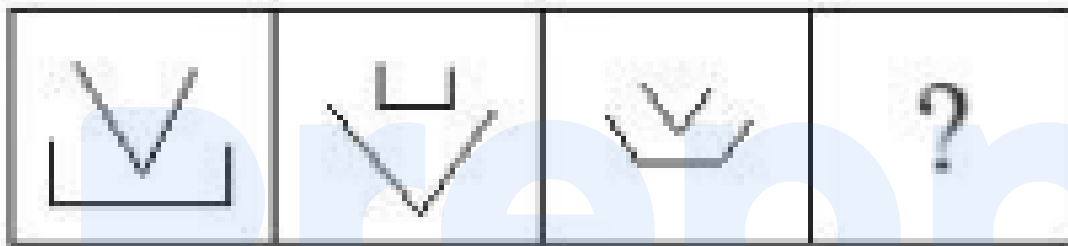
- a. Negative phototropism

- b. Positive phototropism
- c. Negative tropism
- d. Positive tropism

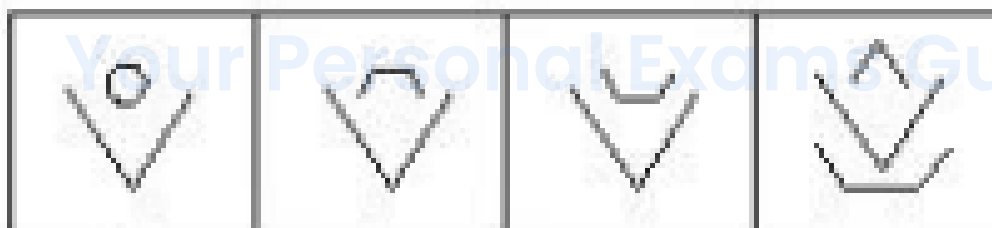
75. Select the figure that will replace '?' in the given series:

(+1, -0.33)

Question Figures:



Answer Figures:



A

B

C

D

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

76. $24 \times 15/12 + ? = 165$ (+1, -0.33)

- a. 124
- b. 55
- c. 155
- d. 135

77. _____ proposed the modern periodic table. (+1, -0.33)

- a. Dobereiner
- b. Newlands
- c. Mendeleev
- d. Moseley

78. What will be the next term of the series? (+1, -0.33)
K11I9, O15M13, _____

- a. Q17S19
- b. Q18S19
- c. S19Q17
- d. Q19S17

79. Medini can paint a wall alone in 21 days; Yuki takes twice as long. Working together, how long will they take to paint half the wall? (+1, -0.33)

- a. 7
- b. 6
- c. 11
- d. 14

80. Angiosperms whose seeds have two cotyledons are called: (+1, -0.33)

- a. Maize
- b. Grass
- c. Paphiopedilum
- d. Dicotyledons

81. Three bells ring at regular intervals of 45, 60 and 125 minutes respectively. (+1, -0.33)
If all three ring together on Monday at 10 am, when will they next ring together?

- a. Thursday (same week), 1 pm
- b. Friday (same week), 1 am
- c. Saturday (same week), 9 am
- d. Friday (next week), 10 pm

82. Which organ of the male reproductive system contains the main genetic material? (+1, -0.33)

- a. Scrotum

- b. Sperm
- c. Ureter
- d. Prostate gland

83. _____ comes from a Greek word meaning 'the region beyond the Sindhu river'. (+1, -0.33)

- a. Jambudweep
- b. Aryavarta
- c. Bharat
- d. Bharatvarsh

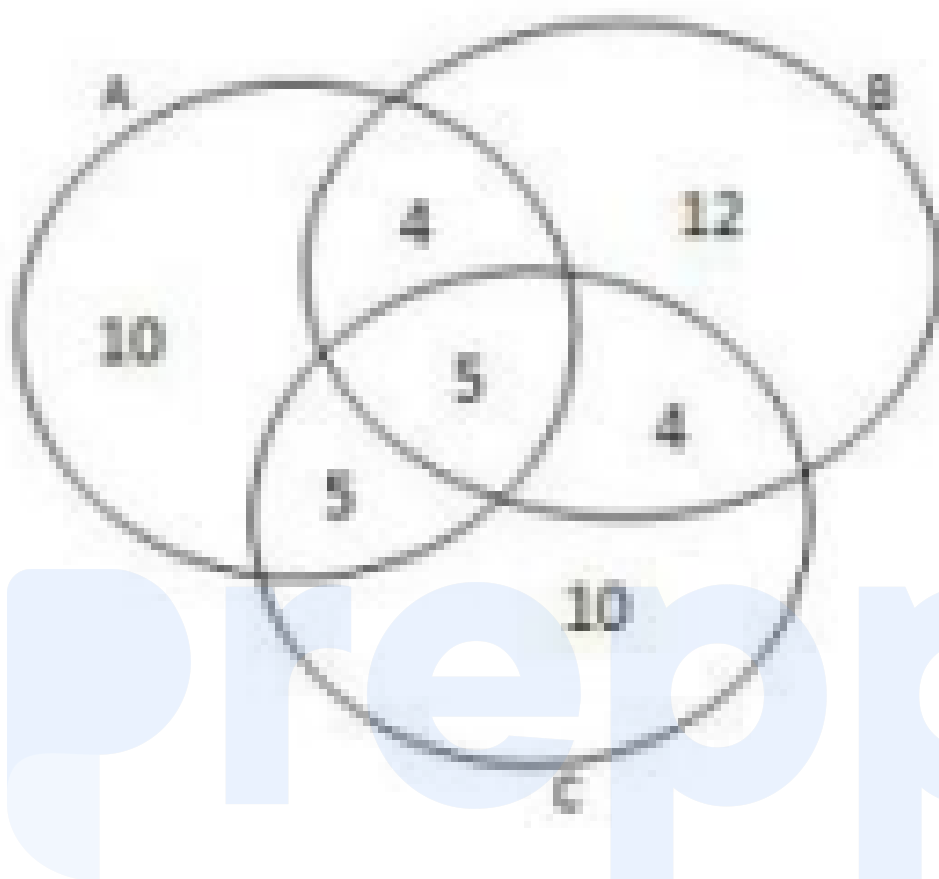
84. Which of the following is/are true? (+1, -0.33)

- A. A balanced chemical equation has equal numbers of atoms of various elements in reactants and products.
- B. When a reactive metal's surface is damaged by contact with air/water/surroundings it is called corrosion and this effect is called 'rancid'.

- a. Only B is true
- b. Only A is true
- c. Both A and B are true
- d. Both A and B are false

85. The following Venn diagram shows a total of 50 students taking vocational trainings A, B and C. Each student attends at least one (+1, -0.33)

training. How many students attend only two training sessions?



- a. 18
- b. 32
- c. 20
- d. 13

Your Personal Exams Guide

86. Find the rationalized value of the denominator of $1/(2 + \sqrt{3})$: (+1, -0.33)

- a. 1
- b. $2 - \sqrt{3}$
- c. $4 + \sqrt{3}$

d. $2 + \sqrt{3}$

87. Which of the following is the term used to announce the Budget? (+1, -0.33)

- a. Semi-annual Financial Statement
- b. Annual Financial Statement
- c. Bi-annual Financial Statement
- d. Quarterly Financial Statement

88. Which pattern is similar to the pattern given below? (+1, -0.33)



A	B	C	D

a. C

b. D

c. B

d. A

89. Each interior angle of a regular pentagon is: (+1, -0.33)

a. 148.24°

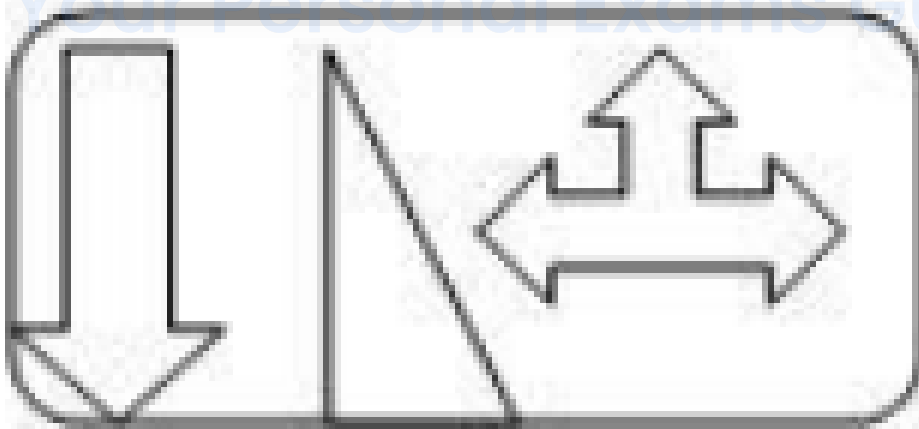
b. 137.56°

c. 128.57°

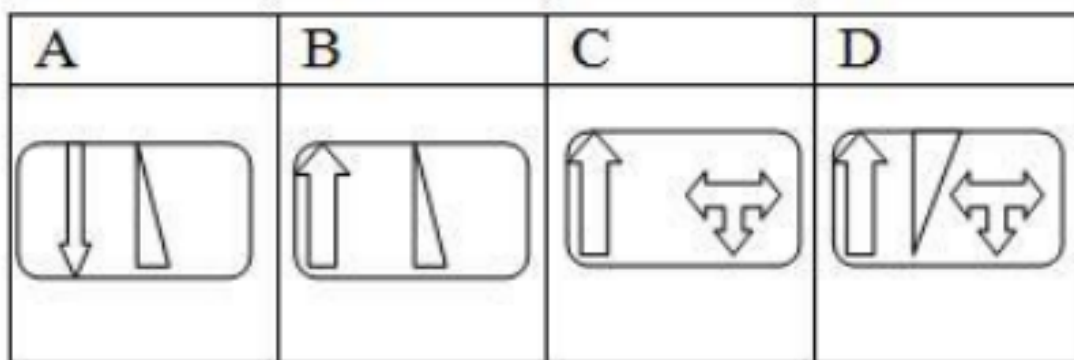
d. 108°

90. Which option figure is similar to the question figure? (+1, -0.33)

Question Figure:



Answer Figure:



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

91. Which of the following is NOT a Fundamental Right in the Indian Constitution?

(+1, -0.33)

- a. Right to Privacy
- b. Right to Property
- c. Right to Equality
- d. Right to Speech

92. Qutbuddin Aibak and Razia belonged to the _____ dynasty.

(+1, -0.33)

- a. Mamluk
- b. Khilji

- c. Lodi
 - d. Mughal
-

93. What is the name of the India-born President of the European Bank for Reconstruction and Development (EBRD), a UK-based bank that recently approved India as a member country? (+1, -0.33)

- a. Anshu Jain
 - b. Rana Talwar
 - c. Suma Chakrabarti
 - d. Vikram Pandit
-

94. How many atoms are there in one molecule of ammonium chloride? (+1, -0.33)

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

95. Which of the following is a Pythagorean triple? (+1, -0.33)

- a. 5, 12, 14
- b. 15, 20, 25
- c. 9, 15, 17

d. 5, 6, 2007

96. Rate of doing work is called _____.

(+1, -0.33)

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

97. Neha's ₹8,000 becomes ₹9,200 in 3 years at a certain simple interest rate. If the interest rate were increased by 2%, how much would she receive?

(+1, -0.33)

- a. ₹9,680
- b. ₹8,900
- c. ₹9,800
- d. ₹2,000

98. Select the odd one out:

(+1, -0.33)

$\frac{Z}{26}$	$\frac{D}{4}$	$\frac{M}{12}$	$\frac{J}{10}$
A	B	C	D

y/

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

99. Which Indian scientist won the prestigious 'Dan David Prize' for contributions to astronomy? (+1, -0.33)

- a. Shrinivas Kulkarni
 - b. Sandesh Kulkarni
 - c. Shrijit Kulkarni
 - d. Sanjay Kulkarni
-

100. Identify the organisation which is different from the rest. (+1, -0.33)

- a. IIM Bangalore
- b. IIM Kozhikode
- c. IIM Ahmedabad
- d. IISc Bangalore