



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 (24-Sep-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. Consider the statement and decide which of the given assumptions is implicit in the statement. Statement: Songs are the best medium for making children memorize lessons. Assumptions: I. Children like songs and are happy listening to them. II. Songs increase children's memory power. (+1, -0.33)
- a. Only assumption II is implicit
 - b. Neither assumption is implicit
 - c. Both assumptions are implicit
 - d. Only assumption I is implicit
-
2. In the modern periodic table, elements with atomic numbers 58 to 71 are called: (+1, -0.33)
- a. Lanthanoids
 - b. Noble gases
 - c. Halogens
 - d. Actinoids
-
3. Who among the following was awarded the Global Diversity Award 2017 at the British Parliament House? (+1, -0.33)
- a. Ranbir Kapoor
 - b. Akshay Kumar
 - c. Salman Khan

d. Aamir Khan

4. If FROCK is written in a code as 61815311, what will be the code for LIKE? (+1, -0.33)

a. 129117

b. 129116

c. 129115

d. 129125

5. At 10:14 pm, the angle formed by the hour hand and minute hand will be: (+1, -0.33)

a. 140°

b. 144°

c. 137°

d. 147°

6. In this question a statement is given followed by two arguments numbered I and II. You have to decide which argument is strong in the context of the statement. Statement: Should awareness programs be (+1, -0.33)

organized by local government bodies to educate people about air pollution? Arguments: I. Yes, they should be organized to inspire people to plant more trees and increase green cover. II. Yes, they should make people aware of the need to limit the number of vehicles on the road.

a. Only argument I is strong

b. Both arguments I and II are strong

- c. Only argument II is strong
- d. Neither I nor II is strong

7. What do the paintings of Ajanta depict? (+1, -0.33)

- a. Rashtrakuta stories
- b. Jataka tales
- c. Raasleela
- d. Mahabharata

8. Shashank runs a commercial company in which he spends 20% of his income on variable costs for running the company. The table below gives the details of the company's income for five years: (+1, -0.33)

Year	Annual Income (₹ lakh)
2012	12.5
2013	13
2014	13
2015	12.5
2016	14

How much does Shashank spend on average per year to manage his firm on variable costs?

- a. ₹ 2.5 lakh
- b. ₹ 2 lakh

c. ₹ 2.6 lakh

d. ₹ 3 lakh

9. Harry is 15 years younger than Yahudi. 13 years from now, Yahudi's age will be twice Harry's age at that time. What is Harry's present age? (+1, -0.33)

a. 2 years

b. 4 years

c. 1 year

d. 3 years

10. If there are 12 protons in the nucleus of an element, it belongs to group ----- (+1, -0.33)

a. 2

b. 8

c. 4

d. 6

11. Poonam covers a distance of 28 km and finds that $\frac{5}{7}$ of her journey is still left to be covered. What is the total distance of her journey? (+1, -0.33)

a. 96 km

b. 97 km

c. 92 km

d. 98 km

12. The radiations emitted by a hot furnace are: (+1, -0.33)

- a. ultraviolet
 - b. infrared
 - c. X-rays
 - d. microwaves
-

13. The HCF of 112, 168 and 196 is: (+1, -0.33)

- a. 4
 - b. 14
 - c. 28
 - d. 7
-

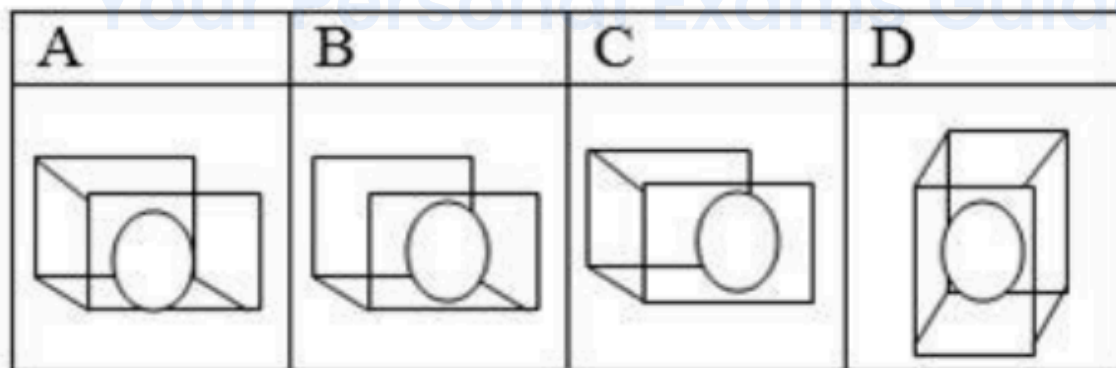
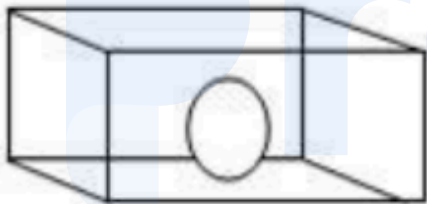
14. If 34% marks are required to pass an examination, what will be the passing marks out of 45? (+1, -0.33)

- a. 15.3
 - b. 14.9
 - c. 15.6
 - d. 14.7
-

15. If the roots of the equation $x^2 - 2x + 1 = 0$ are α and β , then the equation whose roots are α^2 and β^2 will be: (+1, -0.33)

- a. $x^2 + 2x - 1 = 0$
- b. $x^2 - 2x - 1 = 0$
- c. $x^2 + 2x + 1 = 0$
- d. $x^2 - 2x + 1 = 0$

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



- a. B
- b. D

c. A

d. C

17. Unsaturated carbon compounds burn in oxygen with a lot of black smoke giving a _____ flame. (+1, -0.33)

a. Yellow

b. Red

c. Blue

d. Brown

18. If no solution is possible for the equations $6x - 11y + 11 = 0$ and $15x + ky - 9 = 0$, then the value of k will be: (+1, -0.33)

a. -22

b. 27.5

c. -27.5

d. 22

19. The technology sector is the _____ largest employer of women in India. (+1, -0.33)

a. First

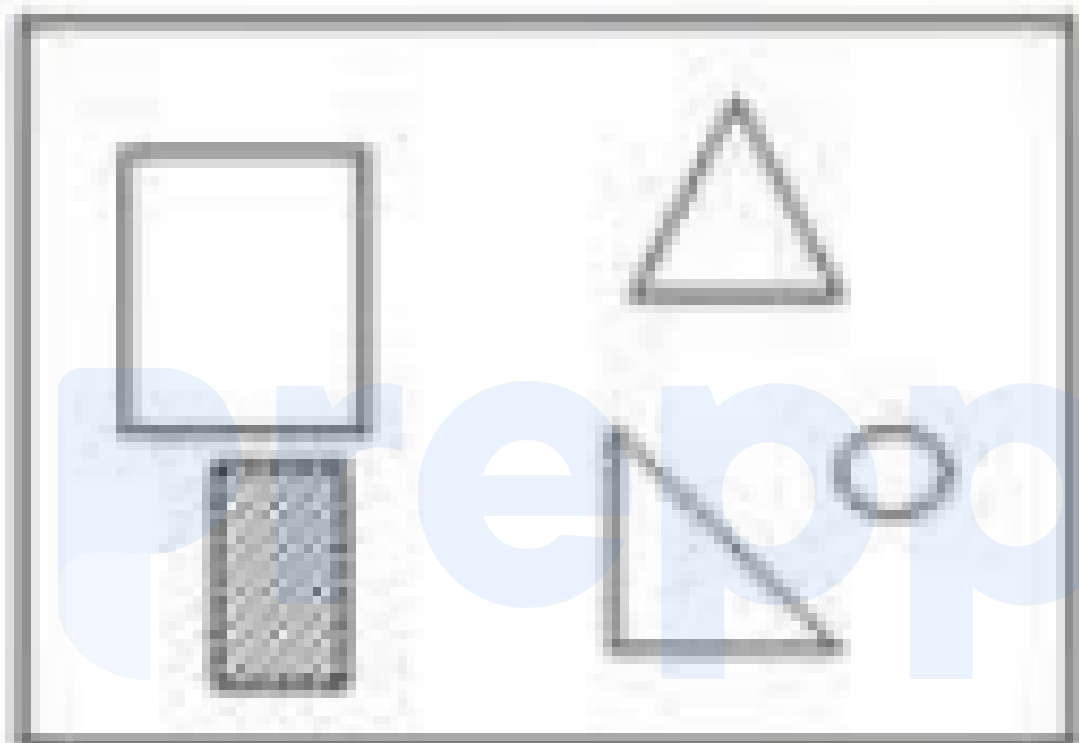
b. Second

c. Fourth

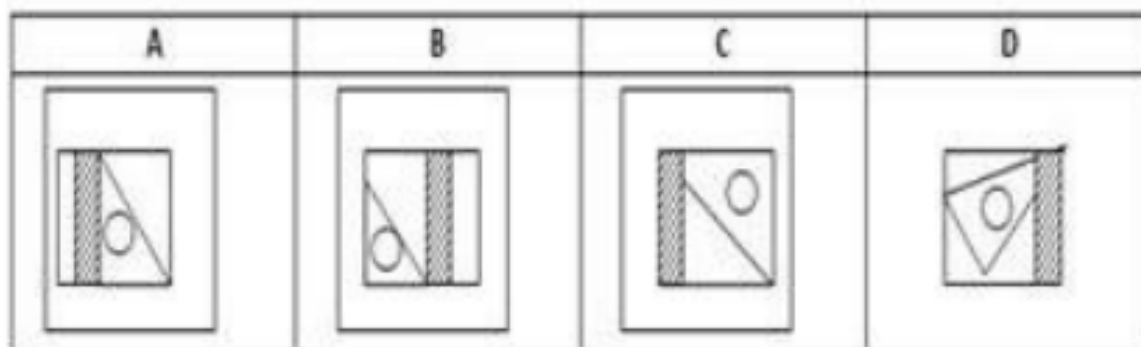
d. Third

20. Which answer figure is formed by the shapes given in the question figure?

(+1, -0.33)



Option figure:



a. B

b. D

c. A

d. C

21. When sodium bicarbonate is placed on a strip of dry pH paper, the color of the strip ----- (+1, -0.33)

a. turns yellow

b. turns green

c. does not change

d. turns blue

22. Density is the ratio of which of the following? (+1, -0.33)

a. Mass $\times$ Volume

b. Mass + Volume

c. Volume / Mass

d. Mass / Volume

23. An object covers 15 m distance in 4 s and another 15 m distance in the next 2 s. What will be the average speed of the object? (+1, -0.33)

a. 6.0 ms^{-1}

b. 5.0 s^{-1}

c. 5.0 ms^{-1}

d. 5.0 m

24. Which option will appropriately replace '?' in the series of figures shown below? (+1, -0.33)

			?
A	B	C	D
			

a. C

b. B

c. A

d. D

25. If TAILOR is written as 019258, what will be the code for CUT? (+1, -0.33)

a. 310

b. 321

c. 320

d. 301

26. If 24-carat gold is 100% pure gold, then the percentage of pure gold in 22-carat gold is: (+1, -0.33)

a. $\frac{200}{3}$

b. $\frac{200}{4}$

c. $\frac{150}{3}$

d. $\frac{275}{3}$

27. A 12 g bullet is fired from a gun. It takes 0.006 s to come out of the barrel and its speed is 600 m/s. What will be the force exerted by the gun on the bullet? (+1, -0.33)

a. 900 N

b. 1000 N

c. 1200 N

d. 360 N

28. In 2018, which Indian state government signed an MoU with South Korea to boost tourism industry? (+1, -0.33)

a. Rajasthan

b. Uttarakhand

c. Uttar Pradesh

d. Kerala

29. In 2017, who took charge as the new Chief Operating Officer (COO) of the National Cricket Academy (NCA)? (+1, -0.33)

- a. Saba Karim
 - b. Toofan Ghosh
 - c. Dilip Sardesai
 - d. Kapil Dev
-

30. Parshvanatha, who was a Kshatriya and son of King Ashvasena of Banaras, became the _____ Jain Tirthankara. (+1, -0.33)

- a. First
 - b. Second
 - c. Twenty-fourth
 - d. Twenty-third
-

31. Which of the following metals reacts violently with cold water? (+1, -0.33)

- a. Aluminium
 - b. Sodium
 - c. Iron
 - d. Zinc
-

32. The base area of a cone is $144\pi \text{ cm}^2$ while its slant height is 13 cm. It is recast into a solid sphere. The radius of the sphere will be: (+1, -0.33)

- a. $2\sqrt[3]{36} \text{ cm}$
- b. $\sqrt[3]{180} \text{ cm}$
- c. $8\sqrt[3]{15} \text{ cm}$
- d. 5 cm

33. Where is the Indian flag hoisted every year by the Prime Minister of India on Independence Day? (+1, -0.33)

- a. Red Fort
- b. Qutub Minar
- c. India Gate
- d. Raisina Road

34. _____ are warm-blooded animals with a four-chambered heart. (+1, -0.33)

- a. Fish
- b. Amphibians
- c. Reptiles
- d. Mammals

35. Compressions are formed where air pressure is: (+1, -0.33)

- a. infinite
 - b. lower
 - c. zero
 - d. higher
-

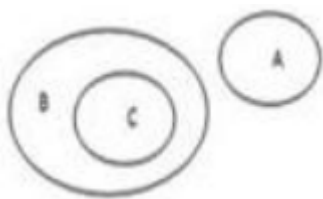
36. Justice _____ became the first woman Chief Justice of Manipur High Court. (+1, -0.33)

- a. Abhilasha Kumari
 - b. Indu Malhotra
 - c. Ranjana Prakash
 - d. Desai Ruma Pal
-

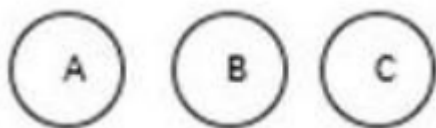
37. The launching of a rocket is based on which law of Newton? (+1, -0.33)

- a. Second law of motion
 - b. First law of motion
 - c. Third law of motion
 - d. First and second law of motion
-

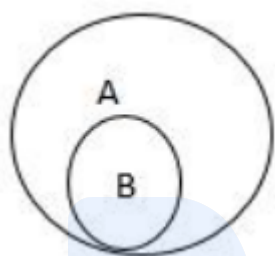
38. Which of the following diagrams correctly represents the relationship between the given classes? A) Tangy B) Sweet C) Candy (+1, -0.33)



a.



b.



c.



d.

39. How many electrons can maximum be accommodated in the M shell? (+1, -0.33)

- a. 2
- b. 8
- c. 18
- d. 32

40. What is the reaction of dilute hydrochloric acid on marble chips? (+1, -0.33)

- a. $\text{CaCO}_3 + 2\text{HCl} \rightarrow \text{CaCl}_2 + \text{H}_2\text{CO}_3$

- b. $\text{CaCO}_3 + 2\text{HCl} \rightarrow \text{CaCl}_2 + \text{H}_2\text{O} + \text{CO}_2$
- c. $\text{CaCO}_3 + 2\text{HCl} \rightarrow \text{CaCl}_2 + \text{H}_2\text{O} + \text{Cl} + \text{O}_2$
- d. $\text{CaCO}_3 + 2\text{HCl} \rightarrow \text{CaCl}_2 + \text{H}_2 + \text{CO}_3$

41. Animals of which of the following classes are warm-blooded? (+1, -0.33)

- a. Amphibia
- b. Pisces
- c. Reptilia
- d. Aves

42. Who among the following resigned from the post of head coach of the Indian cricket team in the year 2017? (+1, -0.33)

- a. Rahul Dravid
- b. Kapil Dev
- c. Ravi Shastri
- d. Anil Kumble

43. Meeku runs a milk shop. Details of his expenditure are given here. He spends 80% of his income on purchase and 20% on shop rent and electricity bill. Every month he spends ₹ 13,000 on rent and electricity bill. What is his expenditure on purchase? (+1, -0.33)

- a. ₹ 40,000

b. ₹ 52,000

c. ₹ 20,000

d. ₹ 50,000

44. In copper oxide (CuO) and carbon monoxide (CO) reaction, the reducing agent is: (+1, -0.33)

a. Cu

b. CuO

c. CO

d. CO₂

45. What will be the next number in the given number series? 310, 260, 210, (+1, -0.33)

a. 200

b. 160

c. 170

d. 190

46. 121 can be represented as the sum of the first ----- odd numbers. (+1, -0.33)

a. 11

b. 9

c. 5

d. 7

47. Choose the most appropriate option. Momentum has _____. (+1, -0.33)

a. magnitude and direction

b. direction

c. no direction

d. magnitude

48. If MINT is written as 3940, then the code for TALE will be: (+1, -0.33)

a. 0225

b. 0226

c. 0126

d. 0125

49. What is the next term in this series? 3G3R, 6F6S, 12E12T, ? (+1, -0.33)

a. 24B24U

b. 24C24U

c. 24A24U

d. 24D24U

50. The mean of three numbers is 16, the range of the data is 12. The difference between the largest and the middle number is three times the difference between the middle number and the smallest number. The largest of the three numbers is: (+1, -0.33)

- a. 23
- b. 22
- c. 21
- d. 24

51. In February 2017, _____ was declared as the 21st district of West Bengal. (+1, -0.33)

- a. Howrah
- b. Kalimpong
- c. Nadia
- d. Birbhum

52. Complete the given number series. 10, 19, 18, 27, _____ (+1, -0.33)

- a. 36
- b. 37
- c. 26
- d. 35

53. During digestion, the role of bile is _____. (+1, -0.33)

- a. emulsification of fat
- b. absorption of fat
- c. digestion of fat
- d. excretion of fat

54. Squares of area 2.25 cm^2 are cut from each corner of a square plate of side 9 cm and the remaining plate is folded along the cuts to form an open cuboid. The volume of this open cuboid will be _____ cm^3 . (+1, -0.33)

- a. 48
- b. 54
- c. 57
- d. 60

55. Dhoni traveled 120 km by steamer, 450 km by train and 60 km on horse. It took him 13 hours 30 minutes to complete his journey. If the speed of the train is 3 times the speed of the horse and 1.5 times the speed of the steamer, then what is the speed (in km/hr) of the train? (+1, -0.33)

- a. 60 km/hr
- b. 70 km/hr
- c. 40 km/hr
- d. 20 km/hr

56. Which of the following does not belong to the group? A. Blanket B. Pillow (+1, -0.33)
C. Mosquito D. Mattress

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

57. To complete a piece of work in 25 days, 15 men and 6 women or 9 men (+1, -0.33)
and 8 women are required. If that work is to be completed in 15 days and
the number of men is 19, then how many women will be required?

- a. 14
- b. 13
- c. 12
- d. 10

58. If the difference of the squares of the roots of the equation $x^2 - 6x + q = 0$ (+1, -0.33)
is 24, then find the value of q .

- a. -7
 - b. 4
 - c. 8
 - d. 5
-

59. $-\frac{1}{5}\{-44 - (-96) \div (-6)\} = ?$

(+1, -0.33)

a. -10.5

b. 12

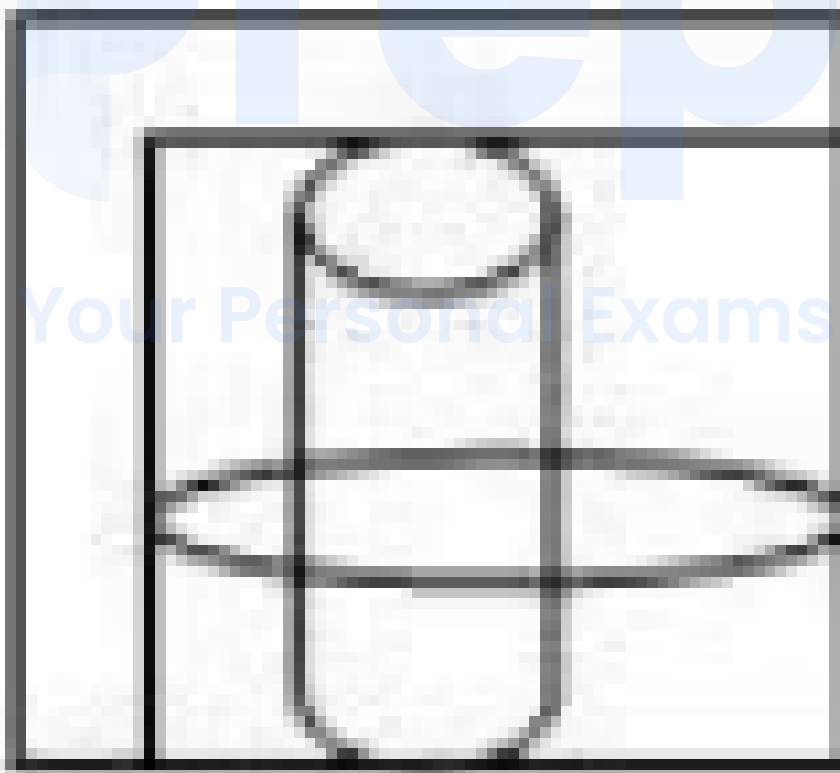
c. -12

d. 10.5

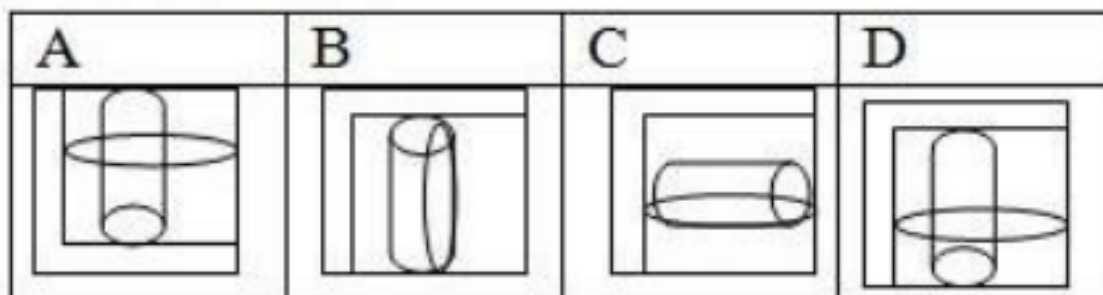
60. Which option figure bears the closest resemblance to the question figure?

(+1, -0.33)

Question figure:



Option Figure:



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

61. If the weight of $\frac{3}{5}$ part of a brick is $\frac{9}{10}$ kg, then what will be the weight of $\frac{8}{15}$ part of that brick? (+1, -0.33)

- a. $\frac{20}{21}$ kg
- b. $\frac{5}{6}$ kg
- c. $\frac{4}{5}$ kg
- d. $\frac{16}{45}$ kg

62. Which of the following is a sea port in the Gulf of Kutch? (+1, -0.33)

- a. Veraval
- b. Kandla
- c. Jafrabad

d. Dahej

63. Those sources of energy which have accumulated in nature over a very long time and cannot be replaced quickly once exhausted are called: (+1, -0.33)

- a. Good sources of energy
 - b. Solar energy
 - c. Renewable sources of energy
 - d. Non-renewable sources of energy
-

64. How much loan amount was approved by the World Bank to assist India in developing its first modern inland waterway? (+1, -0.33)

- a. \$ 275 million
 - b. \$ 475 million
 - c. \$ 375 million
 - d. \$ 575 million
-

65. A statement followed by two arguments is given. Decide which argument is strong in relation to the statement. Statement: Should children be encouraged to keep pets at home? Arguments: I. Yes, pets mingle with family members and children learn to share and care. II. No, keeping pets at home is not feasible for everyone as they require a lot of care. (+1, -0.33)

- a. Neither argument I nor II is strong
- b. Only argument I is strong

- c. Only argument II is strong
- d. Both arguments I and II are strong

66. Find the HCF of $\frac{3}{4}$, $\frac{6}{7}$, $\frac{9}{14}$, and $\frac{12}{25}$. (+1, -0.33)

- a. $\frac{3}{700}$
- b. $\frac{3}{140}$
- c. $\frac{3}{100}$
- d. $\frac{6}{175}$

67. $-30 \div (96 \div 4^2 \times 8 \div 16) \times 7 - 2 = ?$ (+1, -0.33)

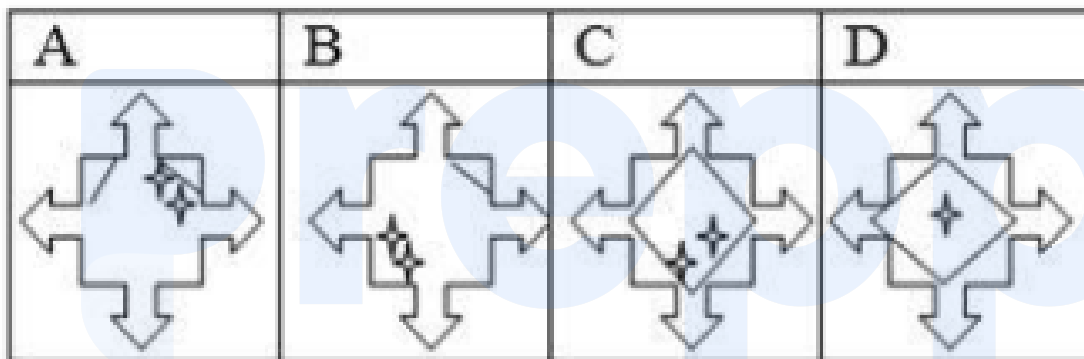
- a. -2
- b. -50
- c. -72
- d. -68

68. Tina and Leela start walking in a park whose entrance faces east. After entering, Leela turns right and starts walking, then turns right twice more. After entering, Tina walks straight and turns left. In which direction are both walking now? (+1, -0.33)

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

d. East

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



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

70. Sumati introduces Lata and Geeta as twin daughters of her son's aunt. The girls are Sumati's _____. (+1, -0.33)

- a. Cousin sisters
b. Nieces (daughters of brother/sister)

- c. Nephews
 - d. Friends
-

71. Which Bollywood personality has won the lifetime achievement award at the 2018 'Political and Public Life Awards' in UK? (+1, -0.33)

- a. Shah Rukh Khan
 - b. Shatrughan Sinha
 - c. Dilip Kumar
 - d. Salman Khan
-

72. If '+' is replaced by '-' and 'x' is replaced by '÷', then what will be the value of $((75 + 60) \times 5) \times 10$? (+1, -0.33)

- a. 0
 - b. 0.3
 - c. 3
 - d. -0.3
-

73. Knife is related to Cut in the same way as Key is related to _____. (+1, -0.33)

- a. Metal
- b. Tool
- c. Open

d. Door

74. Reserve Bank of India (RBI) decided to pay how much dividend to the central government for the year ended June 30, 2018? (+1, -0.33)

- a. ₹ 5,000 crore
 - b. ₹ 10,000 crore
 - c. ₹ 25,000 crore
 - d. ₹ 50,000 crore
-

75. The focal length of a spherical mirror is _____. (+1, -0.33)

- a. thrice its radius of curvature
 - b. twice its radius of curvature
 - c. equal to its radius of curvature
 - d. half of its radius of curvature
-

76. Pipes A and B together can fill a tank in 2.4 hours. Pipe B takes 2 hours more than pipe A to fill the tank if they work alone. A third pipe C can empty the tank in 5 hours. If pipes A and C work together, how many hours will be needed to fill the tank? (+1, -0.33)

- a. 13
- b. 9.4
- c. 20

d. 16.4

77. A, B and C have money in the ratio 2 : 5 : 7. If B has ₹ 90 more than A, then how much money does C have? (+1, -0.33)

a. ₹ 126

b. ₹ 210

c. ₹ 630

d. ₹ 315

78. Ajit and Bhadree agree to do a work for ₹ 56. Ajit alone can do it in 7 days while Bhadree can do it in 8 days. If they complete the work in 3 days with the help of Arun, then Arun will receive ----- (+1, -0.33)

a. ₹ 20

b. ₹ 15

c. ₹ 11

d. ₹ 25

79. Leemay buys vegetables once in 4 days. If he bought vegetables on Thursday, on which days will he buy vegetables next week? (+1, -0.33)

a. Tuesday, Saturday

b. Wednesday, Sunday

c. Sunday, Saturday

d. Monday, Friday

80. If LIMP is written as 1291316, then the code for DINNER will be: (+1, -0.33)

a. 491414518

b. 491515518

c. 491415518

d. 491313518

81. What is the name of the mascot for Olympic 2020? (+1, -0.33)

a. Miraitowa

b. Wenlock

c. Vinicius

d. Sohorang

82. Solve the following: $240 \div 8 \times 512 \div 4 + \frac{1}{2}$ of $\{1800 \div (11 \times 24 \div 8 \times 3 - 69)^2\}$ (+1, -0.33)

a. 3841

b. 3672

c. 2480

d. 2846

83. The diameter of a circle is AD and AB is a chord. If AD = 34 cm and AB = 30 cm, then what is the distance of chord AB from the center of the circle? (+1, -0.33)

- a. 15 cm
- b. 4 cm
- c. 17 cm
- d. 8 cm

84. An electric fuse is based on: (+1, -0.33)

- a. the magnetic effect of current
- b. electromagnetic induction
- c. the cooling effect of current
- d. the heating effect of current

85. Kinetic energy is expressed by: (+1, -0.33)

- a. Mgh
- b. $\frac{1}{2}mv^{-2}$
- c. $\frac{1}{2}mv$
- d. $\frac{1}{2}mv^2$

86. Dipa Karmakar is associated with which sport? (+1, -0.33)

- a. Hockey
- b. Gymnastics
- c. Badminton
- d. Swimming

87. The following table gives sales details of a company in three regions for 5 years. (Figures are in Lakh Rupees) (+1, -0.33)

	Region 1	Region 2	Region 3
Year 1	20	10	10
Year 2	40	20	25
Year 3	40	40	20
Year 4	30	30	40
Year 5	20	10	35

What is the difference between the sales of Year 1 and Year 5 in percentage?

- a. 62.5
- b. 61.5
- c. 59
- d. 60.5

88. What is the horizontal mirror image of RISE? (+1, -0.33)

RISE	RISE	RISE	RISE
A	B	C	D

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

89. A sum of money was invested at simple interest rate of 7.25% per annum for 4 years. If the same sum was invested for 6 years, the interest earned would have been ₹ 435 more. What was the sum invested initially? (+1, -0.33)

- a. ₹ 3000
- b. ₹ 3750
- c. ₹ 3250
- d. ₹ 3500

90. A boy holds a school bag of 4 kg for 30 s. The amount of work done by him in joules will be _____. (+1, -0.33)

- a. 4
- b. Zero

c. 40

d. 39.2

91. Read the following statement and the conclusions that follow. Statement: (+1, -0.33)

Embroidery requires a lot of patience. Conclusions: I. Embroidery is a hobby for those who have a lot of free time. II. People who lack patience may find embroidery difficult.

a. Only conclusion I logically follows the statement

b. Neither conclusion I nor II logically follows the statement

c. Only conclusion II logically follows the statement

d. Both conclusions logically follow the statement

92. A palace manages a private museum. The table below shows the list of (+1, -0.33)

visitors in a week:

Day	Number of visitors
Monday	30
Tuesday	35
Wednesday	40
Thursday	35
Friday	40
Saturday	55
Sunday	45

What is the average number of visitors per day in the week?

- a. 40
- b. 43
- c. 50
- d. 34

93. In species, _____ can provide an advantage for survival or can contribute only in genetic sequence. (+1, -0.33)

- a. Variation
- b. Pollination
- c. Speciation
- d. Fertilization

94. Where was the India-ASEAN Commemorative Summit held in 2018? (+1, -0.33)

- a. Mumbai
- b. New Delhi
- c. Colombo
- d. Kathmandu

95. The embryo gets nutrition from the mother's blood with the help of a special tissue called _____. (+1, -0.33)

- a. placenta

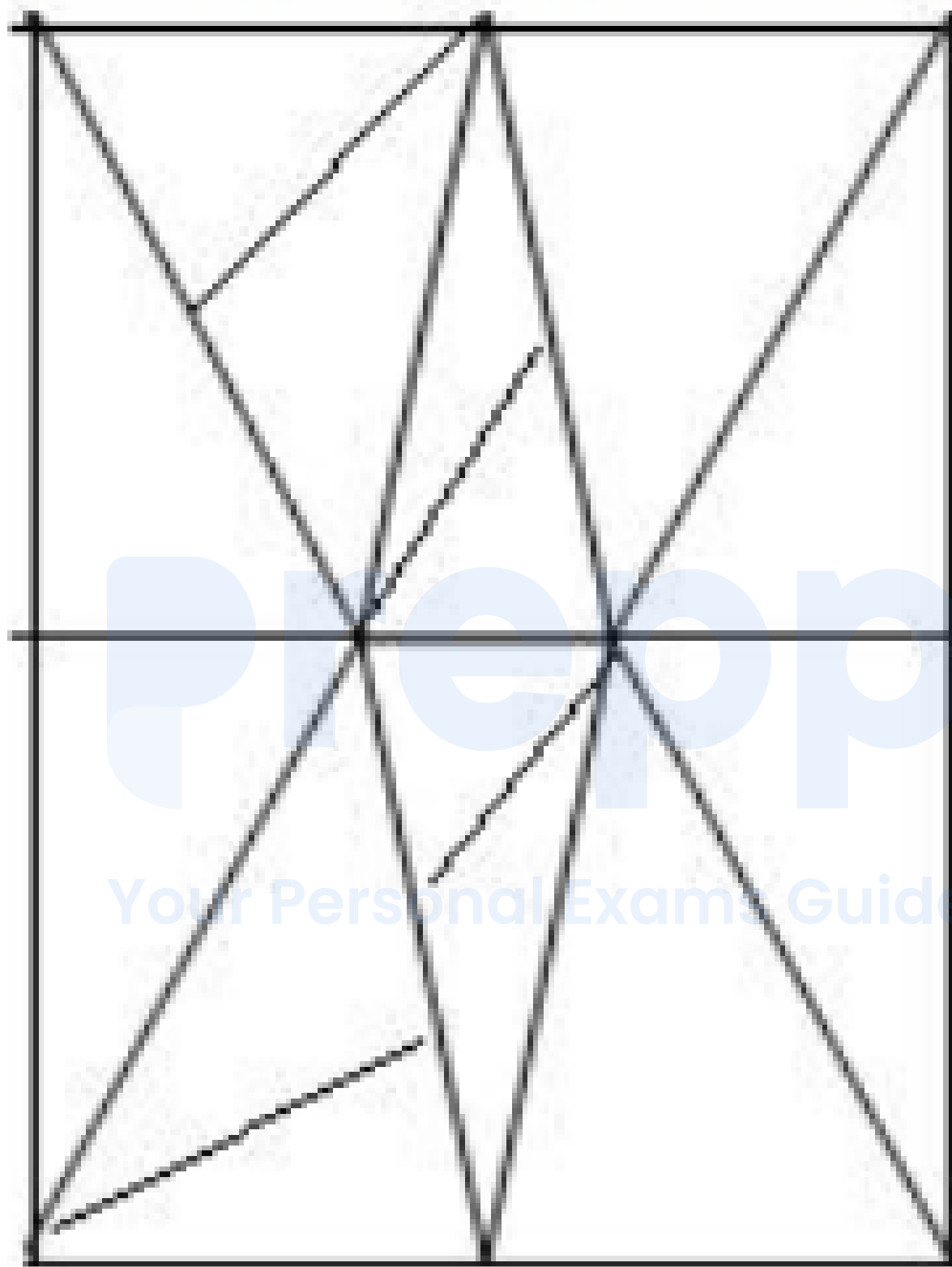
- b. ovary
 - c. cervix
 - d. uterus
-

96. In the 1958 Karlovy Vary Film Festival, for which movie was Nargis awarded the Best Actress Award? (+1, -0.33)

- a. Deedar
 - b. Awaara
 - c. Chori Chori
 - d. Mother India
-

97. How many triangles are there in the given figure? (+1, -0.33)

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a. 14

b. 13

c. 20

d. 17

98. Ankleshwar, a famous petroleum site, is located in the state of _____. (+1, -0.33)

a. Gujarat

b. Bhopal

c. Uttar Pradesh

d. Bihar

99. Find the odd one out from the following: (+1, -0.33)

A	B	C	D
12L	2B	5E	15P

a. B

b. C

c. D

d. A

100. In which of the following Upanishads is the term 'Vasudhaiva Kutumbakam' mentioned? (+1, -0.33)

a. Brihadaranyaka Upanishad

b. Chandogya Upanishad

- c. Maha Upanishad
- d. Kena Upanishad

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