



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 (18-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.

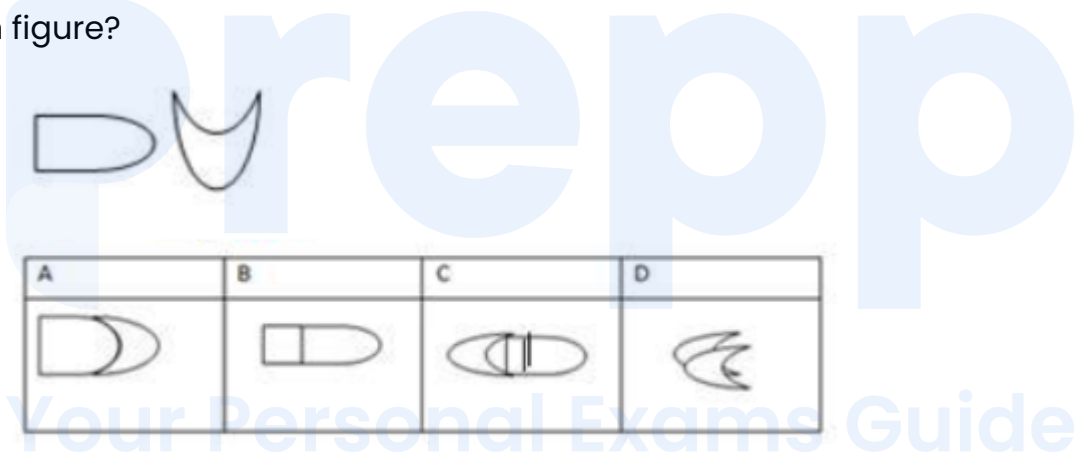
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Test

1. What can be concluded about the carbon atom from ^{12}C ? (+1, -0.33)

- a. It has 6 protons and 12 neutrons.
- b. It has 6 neutrons and 6 protons.
- c. It has 12 neutrons and 6 electrons.
- d. It has 12 protons and 6 neutrons.

2. Which answer figure has been made from both the figures given in the question figure? (+1, -0.33)



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

3. Identify the odd one out: (+1, -0.33)

A	B	C	D
L12	N14	P17	R18

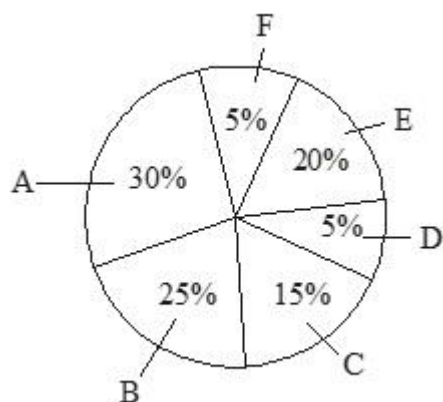
- a. L12
- b. N14
- c. P17
- d. R18

4. Which was the first fort built by the British in India? (+1, -0.33)

- a. Fort St. Peter
- b. Fort St. George
- c. Fort St. Anglo
- d. Fort St. Louis

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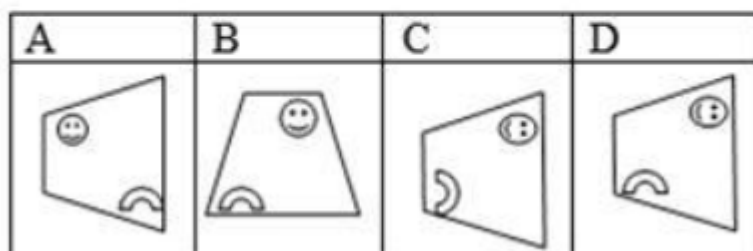
5. The given pie chart provides information about the Non-Performing Assets (NPA) processed by various banks in India up to December 2017. If the total NPA across all banks is ₹300 lakh crore, then what will be the NPA (in lakh crore) of bank "A" up to December 2017? (+1, -0.33)



- a. 90
- b. 60
- c. 110
- d. 70

6. Which option figure bears the closest resemblance to the following question figure?

(+1, -0.33)



- a. C
- b. A

c. B

d. D

7. The World Food Prize 2018 was won jointly by two individuals. One of them is (+1, -0.33)
Dr David Nabarro. What is the name of the other?

a. Dr Akinwumi Adesina

b. Maria Andrade

c. Robert Mwanga

d. Lawrence Haddad

8. The product of two numbers is 1.728. If one of the numbers is 6.4, then the (+1, -0.33)
other number will be:

a. 0.027

b. 27

c. 2.7

d. 0.27

9. A complex permanent tissue is: (+1, -0.33)

a. Sclerenchyma

b. Parenchyma

c. Xylem

d. Collenchyma

10. Read the given statements and conclusions carefully and choose which conclusions are correct. (+1, -0.33)

Statements:

Some pants are dark.

All dark are coats.

Conclusions:

1. Some pants are coats.

2. All coats are pants.

- a. Only conclusion 2 is correct.
- b. Both conclusions are incorrect.
- c. Only conclusion 1 is correct.
- d. Both conclusions are correct.

11. What is the value of $338 \div (169 \div 13 + 13) + (85 - 23 \times 5) \times (114 \div 19)$? (+1, -0.33)

- a. 258
 - b. 193
 - c. -167
 - d. -102
-

12. Which of the following Bollywood actresses won the Best Actress award at the International Film Festival and Awards of Australia (IFFAA) in March 2017? (+1, -0.33)

- a. Priyanka Chopra
- b. Vidya Balan
- c. Aishwarya Rai
- d. Alia Bhatt

13. A person buys two watches for ₹480. He sells one at a 15% loss and the other at a 19% profit and finds that both were sold at the same price. Find the cost price of each watch. (+1, -0.33)

- a. 280, 205
- b. 270, 190
- c. 285, 200
- d. 280, 200

14. If $\sqrt{324} = x8$, then what is the value of x? (+1, -0.33)

- a. 1
- b. 2
- c. 4
- d. 3

15. If $\sin A + \sin^2 A = 1$, then what is the value of $\cos^2 A + \cos^4 A$? (+1, -0.33)

- a. 2
- b. $1/2$
- c. 1
- d. 4

16. The elements present in the third period have _____ shells. (+1, -0.33)

- a. K but not L and M
- b. K, L, M and N
- c. K and L but not M
- d. K, L and M

17. In which state was India's first "Village of Books" inaugurated and thrown open for public reading? (+1, -0.33)

- a. Bihar
- b. Kerala
- c. Maharashtra
- d. Gujarat

18. The monthly fees charged by a sports complex house for various facilities are as follows: ₹500 for the gym, ₹1,500 for the swimming pool and ₹2,000 (+1, -0.33)

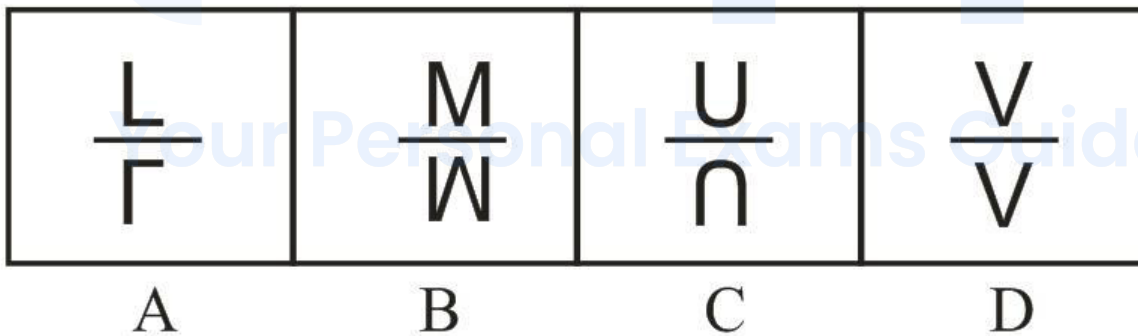
for the tennis court. A list of consumers using these facilities is given below. How much do they earn per month from the consumers using the gym?

Facilities	Number of Consumers
Gym	300
Swimming Pool	200
Tennis Court	100

- a. ₹ 25,000
- b. ₹ 50,000
- c. ₹ 1,50,000
- d. ₹ 15,000

19. Choose the odd one out.

(+1, -0.33)



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

20. Three solutions X, Y and Z have pH values of 2, 11 and 7 respectively. (+1, -0.33)
Arrange them in the descending order of hydrogen ion concentration.

- a. X, Y, Z
 - b. X, Z, Y
 - c. Z, Y, X
 - d. Y, Z, X
-

21. The father's age is four times the son's age. After 20 years, the father's age (+1, -0.33)
will be only twice that of the son. Find their present ages.

- a. 40 years, 10 years
 - b. 36 years, 9 years
 - c. 44 years, 11 years
 - d. 60 years, 15 years
-

22. The scores obtained by a kabaddi team in a series of matches are: 17, 2, 7, (+1, -0.33)
27, 15, 5, 14, 8, 10, 24, 48, 10, 8, 7, 18, 28. Find the median of the scores.

- a. 16
 - b. 15
 - c. 11
 - d. 12
-

23. When did the British government pass the notorious Rowlatt Act, which allowed the political detention of persons without trial? (+1, -0.33)

- a. 1920
 - b. 1919
 - c. 1922
 - d. 1921
-

24. The valency of an atom whose outermost shell has a complete number of electrons is: (+1, -0.33)

- a. Eight
 - b. Seven
 - c. Zero
 - d. One
-

25. Who won the Golden Glove award at the FIFA World Cup 2018? (+1, -0.33)

- a. Hugo Lloris
 - b. Rui Patricio
 - c. Thibaut Courtois
 - d. Fernando Muslera
-

26. Which of the following was officially launched by Vice President of India Venkaiah Naidu in August 2017? (+1, -0.33)

- a. National Mathematics Talent Search
- b. National Computer Talent Search
- c. National Science Talent Search
- d. National Sports Talent Search

27. Who won the FIFA U-17 World Cup by defeating Spain at Salt Lake Stadium, Kolkata on 28 October 2017? (+1, -0.33)

- a. England
- b. Brazil
- c. China
- d. Argentina

28. Which assumptions are implicit in the following statement? (+1, -0.33)

Statement: Vimla reminded her husband, saying, "I hope you have taken your raincoat."

Assumptions:

- I. It might rain.
 - II. Vimla is careful about her husband's health.
- a. Only Assumption II is implicit.

- b. Neither I nor II is implicit.
 - c. Only Assumption I is implicit.
 - d. Both I and II are implicit.
-

29. On moving from sodium to chlorine across a period, the atomic size (+1, -0.33)

-----.

- a. decreases
 - b. increases
 - c. remains the same
 - d. first increases and then decreases
-

30. Pavithran is Aditi's brother and Rishab is the son of Aditi's brother. (+1, -0.33)

Pavithran is Rishab's -----.

- a. brother
 - b. maternal uncle
 - c. father
 - d. son
-

31. The Gandhi Sagar Dam is located in which state? (+1, -0.33)

- a. West Bengal
- b. Maharashtra

- c. Uttar Pradesh
 - d. Madhya Pradesh
-

32. The organisms responsible for kala-azar reproduce by- (+1, -0.33)

- a. multiple fission
 - b. transverse binary fission
 - c. longitudinal binary fission
 - d. linear binary fission
-

33. Gravitational potential energy is equal to which of the following? (+1, -0.33)

- a. Fs
 - b. mv^2
 - c. $m(-g)h$
 - d. mgh
-

34. India's first city to introduce colour-coded holographic stickers on vehicles based on the type of fuel they use is: (+1, -0.33)

- a. Chennai
- b. Bengaluru
- c. Delhi
- d. Hyderabad

35. If two forces of 10 N and 5 N are applied on an object in the same direction, what is the net force acting on the object? (+1, -0.33)

- a. 50 N
- b. 15 N
- c. 25 N
- d. 10 N

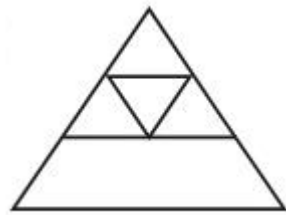
36. How much force must be applied to produce an acceleration of 4 m/s^2 in an object of mass 60 kg? (+1, -0.33)

- a. 60 N
- b. 240 N
- c. 200 N
- d. 15 N

37. Which of the following elements has the highest ionisation energy? (+1, -0.33)

- a. Ne
- b. Ar
- c. Kr
- d. He

38. Find the number of triangles in the following figure. (+1, -0.33)



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

39. What is the name of the Indian supercomputer, ranked fourth fastest in the world, dedicated to weather and climate research work? (+1, -0.33)

- a. Aditya
- b. Sahasra T
- c. HP Apollo
- d. Pratyush

40. During energy production when oxygen is deficient in our muscle cells, the 6-carbon molecule is converted into a _____-carbon molecule. (+1, -0.33)

- a. 5
- b. 3
- c. 1
- d. 2

41. Find the largest five-digit number that is exactly divisible by 324. (+1, -0.33)

- a. 99796
- b. 99798
- c. 99792
- d. 99790

42. Sharda is facing north-east. She turns 45 degrees clockwise and then 135 degrees anticlockwise. In which direction is she now facing? (+1, -0.33)

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

43. When carbon dioxide is passed through a solution of calcium hydroxide, what is the colour of the precipitate formed? (+1, -0.33)

- a. Blue
 - b. White
 - c. Black
 - d. Grey
-

44. To promote organic farming, which state government launched the Zero Budget Natural Farming (ZBNF) scheme? (+1, -0.33)

- a. Himachal Pradesh
- b. Arunachal Pradesh
- c. Andhra Pradesh
- d. Uttar Pradesh

45. Read the question and decide which of the following statements is sufficient to answer it. (+1, -0.33)

Question: How many pyramids are in the box?

Statements:

- 1) The box contains some yellow, red and blue pyramids.
- 2) The box contains 6 yellow, 7 red pyramids and some blue pyramids.

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

46. $1.1 \times 0.1 \times 0.01 = ?$ (+1, -0.33)

- a. 0.011
- b. 0.11

- c. 1.1
 - d. 0.0011
-

47. You are given a question and two statements. Decide which statement(s) (+1, -0.33) are necessary/sufficient to answer the question.

Question: Milka is Lali's niece. Based on the statements below, can we find Lali's present age?

Statements:

- 1. Their mean age is 28.
 - 2. Lali was born in 1976.
- a. Only statement 1 is sufficient.
 - b. Neither statement 1 nor 2 is sufficient.
 - c. Only statement 2 is sufficient.
 - d. Statements 1 and 2 together are sufficient.

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48. The simple interest earned on Rs 2,735 at 5% per annum for 4 years will (+1, -0.33) be:

- a. Rs 273.50
 - b. Rs 502.50
 - c. Rs 543.50
 - d. Rs 547
-

49. If 'L' stands for '+', 'M' for '-', 'N' for 'x' and 'P' for '/', then what is the value of $11N8L6P2M10$? (+1, -0.33)
- a. 90
 - b. 85
 - c. 81
 - d. 80

50. In 2018, the National Bank for Agriculture and Rural Development (NABARD) started its first centre for climate change. In which city was it launched? (+1, -0.33)
- a. Bengaluru
 - b. Chandigarh
 - c. Lucknow
 - d. Kolkata

51. Two pipes x and y can fill a tank in 24 hours and 32 hours respectively. If both pipes are opened together, after how much time should the first pipe be closed so that the tank gets filled in only 16 hours? (+1, -0.33)
- a. After 12 hours
 - b. After 15 hours
 - c. After 10 hours
 - d. After 18 hours

52. Find the next term of the following series.

(+1, -0.33)

19, 24, 22, 27, 25, ?

- a. 32
- b. 18
- c. 30
- d. 23

53. Read the statements and conclusions carefully and choose which conclusions logically follow the statements.

(+1, -0.33)

Statements:

All rings are round.

All round are objects.

Conclusions:

1. All rings are objects.

2. All objects are rings.

- a. No conclusion follows
 - b. Only conclusion 2 follows.
 - c. Both conclusions follow.
 - d. Only conclusion 1 follows.
-

54. If an object is placed 10 cm from a convex mirror of radius of curvature 5 cm, what will its magnification be? (+1, -0.33)

- a. 0.05
- b. 0.1
- c. 0.2
- d. 2

55. Seven children with the same birthday were born in seven consecutive years. The sum of the ages of the eldest three children is 63 years. What is the sum of the ages of the youngest three children (in years)? (+1, -0.33)

- a. 51
- b. 60
- c. 57
- d. 54

56. The sum of the present ages of Jelena and Jayden is 70 years. Five years ago, Jayden's age was twice Jelena's age. What is Jayden's present age? (+1, -0.33)

- a. 47 years
- b. 43 years
- c. 41 years
- d. 45 years

57. Read the statements and conclusions carefully and decide which conclusions logically follow the statements. (+1, -0.33)

Statements:

All pigs are dirty.

All dirty are muddy.

Conclusions:

1. Some muddy are pigs.
 2. Some muddy are dirty.
- a. Only conclusion 2 follows
 - b. No conclusion follows
 - c. Both conclusions follow
 - d. Only conclusion 1 follows

58. Which of the following elements is more electronegative? (+1, -0.33)

- a. S
- b. P
- c. Al
- d. Cl

59. What will be the next term in the following series? (+1, -0.33)

2A, 4G, 8M, ?

- a. 64S
 - b. 16S
 - c. 16R
 - d. 64R
-

60. What is the name of the actor who played the character of Bhallaladeva in the 'Baahubali' film series? (+1, -0.33)

- a. Abhishek Bachchan
 - b. Prabhas
 - c. M. Nasser
 - d. Rana Daggubati
-

61. A boatman takes 12 hours to cover 75 km upstream while covering the same distance downstream takes only 7.5 hours. What is the speed of the current? (+1, -0.33)

- a. 8.125 km/h
 - b. 6.625 km/h
 - c. 6.25 km/h
 - d. 1.875 km/h
-

62. 'Cheriyal' is a style of painting that has recently been in the news. It belongs to which state? (+1, -0.33)

- a. Telangana
- b. Andhra Pradesh
- c. Karnataka
- d. Madhya Pradesh

63. Consider the given statement and decide which of the given assumptions is implicit in the statement. (+1, -0.33)

Statement:

Nowadays doctors suggest consuming rice at dinner.

Assumptions:

I. Late-night meals produce more toxins in the body because the food remains undigested for a longer time.

II. Rice gets digested quickly.

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

64. Which of the following sportspersons was awarded the Padma Shri in 2017? (+1, -0.33)

- a. Sakshi Malik
- b. Babita Kumari

- c. Geeta Phogat
- d. Deepika Kumari

-
65. Two assumptions marked I and II are given with the following statement. (+1, -0.33)
Consider the statement and the assumptions and decide which assumption is implicit in the statement.

Statement:

Protection of major elements of our environment is important for human health.

Assumptions:

I. Breathing healthy air, having ample supply of drinking water and protection against harmful effects of substances are fundamental to our health.

II. Air pollution is emerging as a big problem due to widespread domestic and industrial burning of fossil fuels emitting large amounts of smoke and oxides of sulphur.

- a. Only assumption I is implicit.
- b. Only assumption II is implicit.
- c. Neither I nor II is implicit.
- d. Both I and II are implicit.

-
66. In a house, 150 units of energy are consumed during a month. What is the amount of this energy in joules? (+1, -0.33)

- a. $10 \times 10^{85} J$

- b. $9 \times 10^8 J$
- c. $5 \times 10^8 J$
- d. $5.4 \times 10^8 J$

67. Solve the following equation:

(+1, -0.33)

$$2^{2x+3} - 17 = 9(2^x - 2)$$

- a. -1, -2
- b. 3, 0
- c. -3, 0
- d. 0, 2

68. Two arguments marked I and II are given with the following statement.
Consider the statement and the following arguments and decide which argument is strong with respect to the statement.

(+1, -0.33)

Statement:

Will Jack become dull by working continuously without engaging in sports activities?

Arguments:

- I. Yes, physical development is equally important for a healthy and holistic development.
 - II. No, working brings money, and money can buy anything that gives joy.
- a. Both I and II are strong.

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

69. Who acts as the ex-officio Chairperson of the NITI Aayog? (+1, -0.33)

- a. President of India
- b. Home Minister of India
- c. Vice-President of India
- d. Prime Minister of India

70. The dimension of acceleration is. (+1, -0.33)

- a. $L^1 M^2 T^{-2}$
- b. $L^1 M^1 T^2$
- c. $L^1 M^0 T^{-2}$
- d. $L^1 M^0 T^2$

71. The surface irregularities between two surfaces result in _____. (+1, -0.33)

- a. Friction
- b. Impulse
- c. Torque

d. Tension

72. If 2 men or 3 women can complete a work in 30 days, in how many days will 6 men and 1 woman complete the same work? (+1, -0.33)

- a. 6 days
 - b. 9 days
 - c. 5 days
 - d. 4 days
-

73. The part of DNA that provides information for a protein is called (+1, -0.33)

- .
- a. Chromosome
 - b. Nucleus
 - c. Nucleolus
 - d. Gene
-

74. If PEARL is written as QFBSM, how will SUIT be written? (+1, -0.33)

- a. TVJU
 - b. TVJV
 - c. TWJU
 - d. TVJT
-

75. If a girl of weight 40 N climbs a rope with a power of 160 W for 20 seconds, (+1, -0.33)
up to what height can she reach?

- a. 8 metres
- b. 0.8 metres
- c. 80 metres
- d. 4 metres

76. If a 1 kg alloy contains 32% copper, 40% zinc and the rest nickel, what is (+1, -0.33)
the mass of copper in the alloy?

- a. 320 g
- b. 240 g
- c. 280 g
- d. 400 g

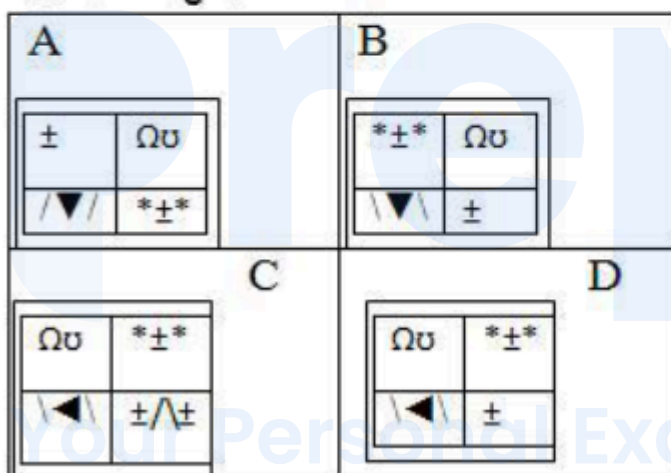
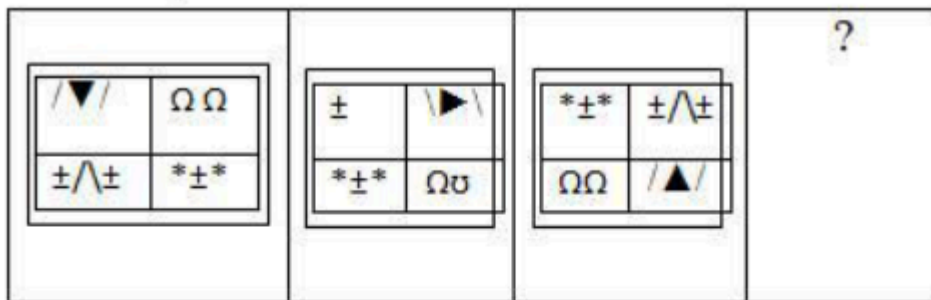
77. Choose the odd one out. (+1, -0.33)

$\frac{T}{20}$	$\frac{X}{23}$	$\frac{O}{15}$	$\frac{L}{12}$
A	B	C	D

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

d. B

78. In the following series of question figures, which answer figure will replace the question mark (?)? (+1, -0.33)



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

79. A sum of ₹1000 is divided among Tara, Tamanna and Tina in the ratio 4:5:6. What is the difference between the amounts received by Tara and (+1, -0.33)

Tina?

- a. ₹ 234
- b. ₹ 150
- c. ₹ 133.33
- d. ₹ 250

80. The Błędów Desert is located in which country? (+1, -0.33)

- a. Greenland
- b. Poland
- c. New Zealand
- d. Iceland

81. Eka-aluminium was later named as the metal _____ in the modern periodic table. (+1, -0.33)

- a. Aluminium
- b. Gallium
- c. Scandium
- d. Germanium

82. Which of the following is a saturated hydrocarbon? (+1, -0.33)

- a. C_2H_6

b. C_2H_2

c. CH_2

d. C_2H_4

83. Who was sworn in as the 45th Chief Justice of India in August 2017? (+1, -0.33)

a. Ranjan Gogoi

b. Dipak Misra

c. Justice Chelameswar

d. Jagdish Singh Khehar

84. Shashi is Manoj's sister. How is Shashi's father's father related to Manoj? (+1, -0.33)

a. Brother

b. Father

c. Uncle

d. Grandfather

85. The average power required to lift an 80 kg object to a height of 40 m in about 50 s is ($g = 10 \text{ m/s}^2$). (+1, -0.33)

a. 600 J/s

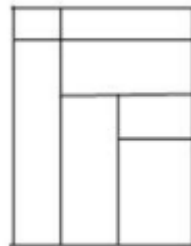
b. 800 J/s

c. 3,200 J/s

d. 640 J/s

86. How many rectangles are there in the following figure?

(+1, -0.33)



a. 16

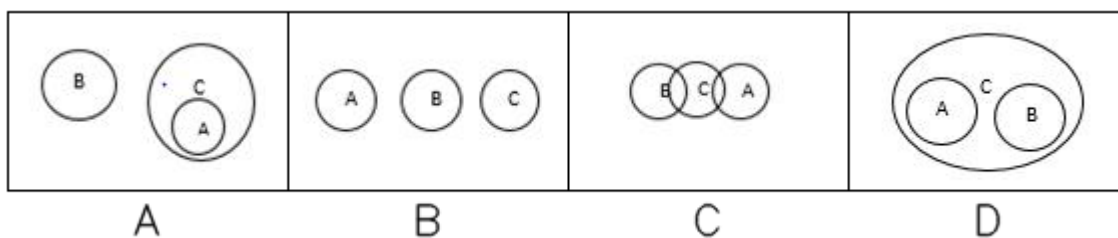
b. 21

c. 15

d. 17

87. Which of the following Venn diagrams correctly represents the relationship between the classes given below? A) Sitar B) Harp C) Musical Instruments

(+1, -0.33)



a. A

b. B

c. C

d. D

88. The total distance between two stations is 390 km. A train covers 182 km at 56 km/hr and 108 km at 72 km/hr. The remaining distance is covered in $1\frac{1}{4}$ hours. Find the average speed of the train for the whole journey. (+1, -0.33)

a. 65 km/hr

b. 60 km/hr

c. 70 km/hr

d. 75 km/hr

89. A waxy layer is found on the outer epidermis of desert plants. This substance is- (+1, -0.33)

a. Lignin

b. Cellulose

c. Pectin

d. Cutin

90. If $a + \frac{1}{a} = 8$, then $a^3 + \frac{1}{a^3} = ?$ (+1, -0.33)

a. 488

b. 536

c. 480

d. 512

91. What is the value of (Mean - Median) for the data 5, 8, 22, 6, 9, 15, 12, 18? (+1, -0.33)

- a. 1.125
- b. 1.375
- c. 1.175
- d. 0.725

$$18 \times 16 - \frac{3445}{13} = ?$$

92. a. 23 (+1, -0.33)

- b. 21
- c. 27
- d. 25

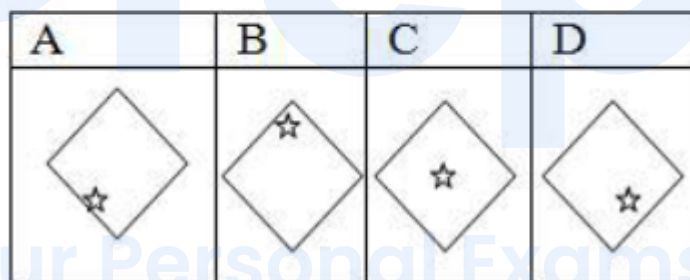
93. Who became the first Indian woman to fly a fighter aircraft solo? (+1, -0.33)

- a. Avani Chaudhary
- b. Avani Chaturvedi
- c. Avani Chautala
- d. Avani Chatterjee

94. Two adjacent sides of a right-angled triangle are 1.5 cm and 2 cm long. (+1, -0.33)
The area of its circumscribed circle will be:

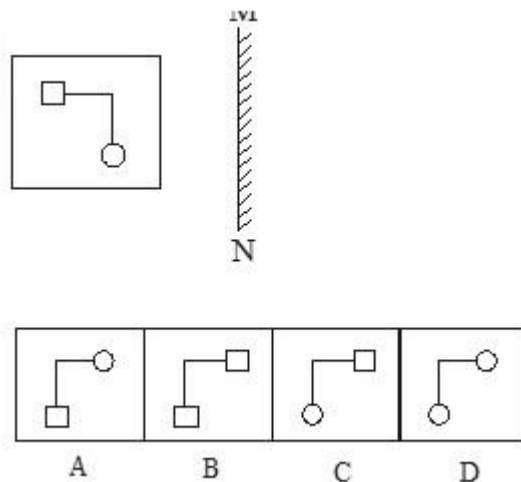
- a. 1.75 cm^2
- b. $1.5625\pi \text{ cm}^2$
- c. 1.5 cm^2
- d. $1.25\pi \text{ cm}^2$

95. In the following series of question figures, which answer figure will replace the question mark (?)? (+1, -0.33)



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

96. When a mirror is placed on line MN, the mirror image for the following figure is (+1, -0.33)



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

97. Which of the following numbers is not an irrational number?

(+1, -0.33)

- a. π
- b. $\sqrt{7652}$
- c. $\sqrt{5428}$
- d. $\sqrt{6084}$

98. Pipe A fills a tank in one-fourth the time taken by pipe B. Pipe C takes three times as long as pipe A to fill it. If all three pipes are opened together they can fill an empty tank in 24 hours. If pipe C is not switched on, how many hours will it take to fill the empty tank?

(+1, -0.33)

- a. 30.2
- b. 28.4
- c. 30.6
- d. 30.4

99. Dentists use a concave mirror because the image formed on it is ----- (+1, -0.33)

- a. Real and large
- b. Virtual and enlarged
- c. Real but inverted
- d. Virtual but blurred

100. Complete the following series by choosing the correct option. 1, 8, 9, 64, -----, -----, 49, 512, -----, ----- (+1, -0.33)

- a. 125, 216, 729, 1000
- b. 25, 216, 81, 1000
- c. 125, 36, 729, 100
- d. 25, 36, 81, 100