



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 (5-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.

Your Personal Exams Guide

Test

1. A motor vehicle can complete its journey in 7 hours at a speed of 105 km/hr. (+1, -0.33)
If the same distance is to be covered in 10 hours, what should be the speed of the motor vehicle?
- a. 83.5 km/hr
 - b. 75.5 km/hr
 - c. 73.5 km/hr
 - d. 72.5 km/hr
-
2. Which is the largest city of Brazil? (+1, -0.33)
- a. São Paulo
 - b. Salvador
 - c. Rio de Janeiro
 - d. Fortaleza
-
3. Producing approximately 17.22% of the country's total milk output, (+1, -0.33)
_____ is India's largest milk-producing state.
- a. Uttar Pradesh
 - b. Andhra Pradesh
 - c. Rajasthan
 - d. Gujarat

4. The chemical name of slaked lime is: (+1, -0.33)

- a. Calcium oxide
- b. Calcium chloride
- c. Calcium hydroxide
- d. Calcium carbonate

5. -COOH is present in which of the following functional groups? (+1, -0.33)

- a. Carboxylic acid
- b. Ketone
- c. Aldehyde
- d. Alcohol

6. The property of a substance by which it does not change its shape in spite of _____ acting on it is called _____. (+1, -0.33)

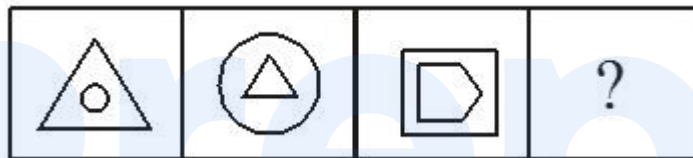
- a. external force, shape
- b. external volume, rigidity
- c. external area, rigidity
- d. external force, rigidity

7. _____ was discovered later and replaced eka-silicon. (+1, -0.33)

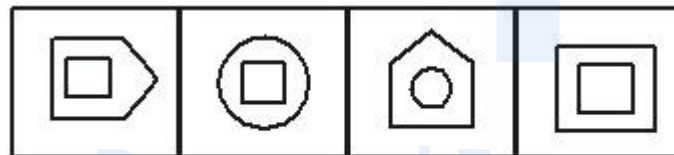
- a. Scandium
- b. Rubidium
- c. Germanium
- d. Gallium

8. Which answer figure will come in place of '?' in the following question figure series? (+1, -0.33)

Problem Figure:



Answer Figure:



A B C D

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

9. Choose the odd figure from the following: (+1, -0.33)

a b c d

:	;	÷	.
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- a. a
- b. b
- c. c
- d. d

10. If the value of x satisfies $12(5x - 4) = 16(5x + 1)$, solve the equation and find the value of x . (+1, -0.33)

- a. -3.2
- b. 2.8
- c. 1.4
- d. -2.8

11. As of July 2018, who was the Chief Election Commissioner of India? (+1, -0.33)

- a. Om Prakash Rawat
- b. Ojesh Prakash Rawat

c. Omkar Prakash Rawat

d. Om Pratap Rawat

12. Who was conferred the 'Global Diversity Award 2017' by the British Parliament House? (+1, -0.33)

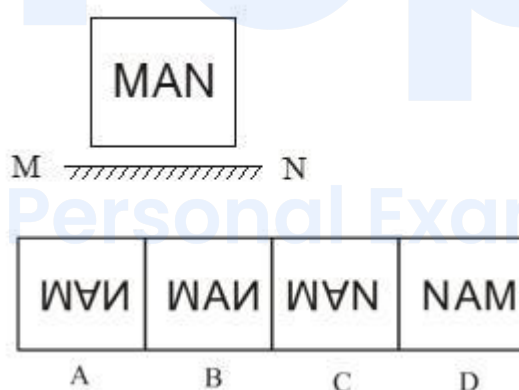
a. Amitabh Bachchan

b. Shahrukh Khan

c. Sanjay Dutt

d. Salman Khan

13. Choose the mirror image of the following figure. (+1, -0.33)



a. A

b. C

c. D

d. B

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

Meghalaya : Shillong :: Bihar : ?

- a. Lucknow
- b. Patna
- c. Hyderabad
- d. Dispur

15. At a crossing, traffic lights change every 48 s, 72 s and 108 s respectively. If they change together at 9:15:00 a.m., when will they next change together again? (+1, -0.33)

- a. 9:22:12 a.m.
- b. 9:24:27 a.m.
- c. 9:21:07 a.m.
- d. 9:23:17 a.m.

16. The 'Sahitya Akademi Award' is given by the Government of India for outstanding performance in which of the following fields? (+1, -0.33)

- a. Innovation
- b. Music
- c. Literature
- d. Sports

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

Question:

Which day is the thirteenth day of the given month?

Statements:

I. The last day of the month is Tuesday.

II. The sixteenth day of the month is the third Friday of that month.

- a. The data given in statements I and II together are not sufficient
- b. Either statement I or statement II alone is sufficient
- c. The data given in statement II is sufficient
- d. The data given in statement I is sufficient

18. A coolie lifts a 13 kg load from the ground onto his head at 1.5 m above the ground. Find the work done by him. ($g = 10 \text{ ms}^{-2}$) (+1, -0.33)

- a. 140 J
- b. 195 J
- c. 100 N
- d. 150 J

19. At the 64th National Film Awards ceremony held in 2017, which film won the Best Children's Film award? (+1, -0.33)

- a. Kochadaiyaan
- b. The Jungle Book
- c. Dhanak
- d. Chillar Gang

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

2, 7, 17, 32, 52, ?

- a. 80
- b. 77
- c. 79
- d. 76

21. $216 \div [55 - \{45 - (32 - 27 \div 9 \times 2)\}] = ?$ (+1, -0.33)

- a. 8
- b. 6
- c. 4
- d. 3

22. What is the mass per unit volume of a substance called? (+1, -0.33)

- a. Density

- b. Mass
 - c. Matter
 - d. Energy
-

23. After being established in November 1525, Babur met Ibrahim in Panipat, 80 km north of Delhi, on 21 April _____. (+1, -0.33)

- a. 1527
 - b. 1526
 - c. 1521
 - d. 1519
-

24. Who chaired the Special Investigation Team (SIT) on black money that recommended banning cash transactions above ₹3 lakh? (+1, -0.33)

- a. Arun Jaitley
 - b. Narendra Modi
 - c. M. B. Shah
 - d. Ahmed Patel
-

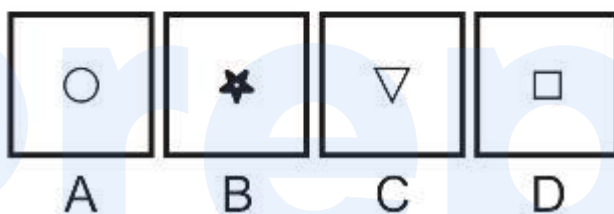
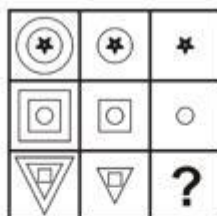
25. Which of the following options correctly shows the descending order of hydrogen atoms? (+1, -0.33)

- a. Alkyne, alkene, alkane
- b. Alkane, alkene, alkyne

c. Alkane, alkyne, alkene

d. Alkene, alkyne, alkane

26. Select the figure from the given options that will come in place of the '?' in the above figure series. (+1, -0.33)



a. C

b. D

c. B

d. A

27. In a rectangular park of $72 \text{ m} \times 48 \text{ m}$, two 2 m wide paths - Nehru Road and Zoo Park Road - cross each other at right angles at the centre of the park. Each path is parallel to one dimension of the park. What will be the cost of constructing the paths at the rate of ₹ 150 per square metre? (+1, -0.33)

a. ₹35,395

b. ₹35,300

c. ₹35,400

d. ₹35,350

28. The rate of doing work is called - (+1, -0.33)

a. Energy

b. Force

c. Pressure

d. Power

29. In the modern periodic table, _____ is the last metalloid. (+1, -0.33)

a. Arsenic

b. Tellurium

c. Antimony

d. Polonium

30. The atomic mass of carbon is 12. The number of moles in 24 g of carbon will be: (+1, -0.33)

a. 4

b. 3

c. 2

d. 1

31. What is the name of the fund collected from public organisations by the Ministry of Water Resources, River Development and Ganga Rejuvenation to clean the Ganga? (+1, -0.33)

- a. Swachh Jal Fund
- b. PSU Fund
- c. Clean Ganga Fund
- d. Jal Fund

32. Where is the 'Black Rock' desert located? (+1, -0.33)

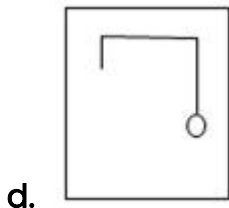
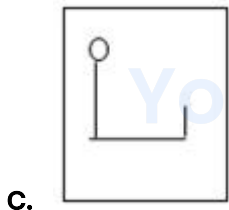
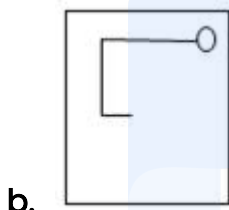
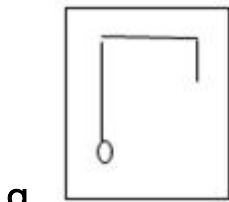
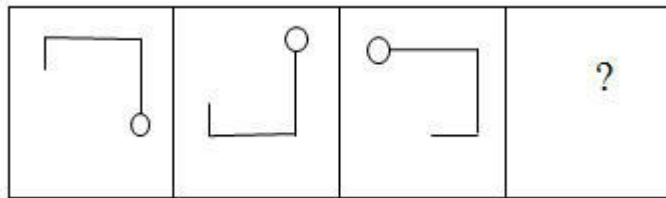
- a. United States
- b. China
- c. South Africa
- d. Egypt

33. What will be the simple interest on ₹ 2500 for 2 years 3 months at the rate of 6% per annum? (+1, -0.33)

- a. ₹ 375
 - b. ₹ 423.50
 - c. ₹ 337.50
 - d. ₹ 445
-

34. Which option figure will complete the following series?

(+1, -0.33)



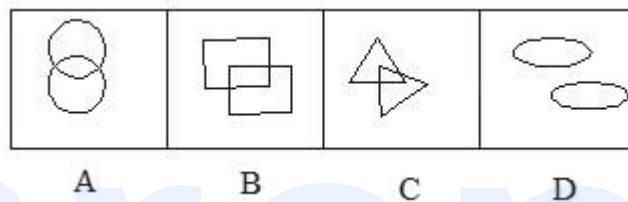
35. What was the name of Gautam Buddha's mother?

(+1, -0.33)

- a. Trishala
- b. Maya
- c. Kanika
- d. Kaushalya

36. Choose the odd figure from the following:

(+1, -0.33)



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

Prepp

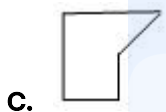
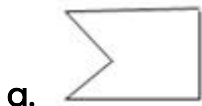
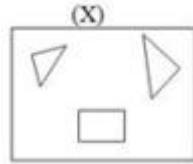
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37. If an object floats, the upthrust (buoyant force) exerted by water on the object will be _____ .

(+1, -0.33)

- a. Less than the weight of the object
- b. Zero
- c. More than the weight of the object
- d. Equal to the weight of the object

38. Which figure given in the options can be constructed using the figures given in the following problem (X) figure group? (+1, -0.33)



39. Select the option that has the same relation with the third word as the second word has with the first. (+1, -0.33)

Talk : Chat :: Pour : ?

- a. Fall
- b. Drown
- c. Drop

d. Dispense

40. Here a question is followed by two arguments. Decide which argument(s) (+1, -0.33) is logical in the context of the question.

Question:

Should the government give subsidy to promote the use of electric vehicles?

Arguments:

1. Yes, this will boost the sale of electric vehicles.

2. No, people should not wait for any such subsidy and should come forward themselves to protect the environment.

a. Neither 1 nor 2 is logical.

b. Both 1 and 2 are logical.

c. Only 2 is logical.

d. Only 1 is logical.

41. _____ waves help bats to detect obstacles in their path. (+1, -0.33)

a. Supersonic

b. Infrasonic

c. Ultrasonic

d. Super-ultrasonic

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

- a. Potential Difference
- b. Electric Charge
- c. Resistance
- d. Electric Current

43. You are given a question and two statements. Decide which of the statements is sufficient to answer the question. (+1, -0.33)

Question:

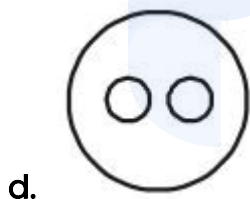
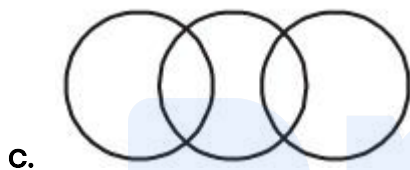
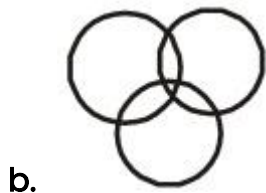
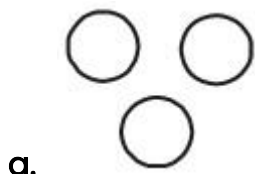
What is Mr. X's position in a row of 40 persons?

Statements:

- 1. There are 16 persons in front of Mr. X.
 - 2. There are 23 persons behind Mr. X.
- a. Only 2 is sufficient while 1 alone is not sufficient.
 - b. Only 1 is sufficient while 2 alone is not sufficient.
 - c. Both statements 1 and 2 together are sufficient.
 - d. Either statement 1 alone or 2 alone is sufficient.

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

Vegetables, Capsicum, Beans



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45. By selling an old phone for ₹ 6,360, Ranjita realised 47% less than the price at which she had bought it some years back. At what price should Ranjita have sold it to make a profit of 13%? (+1, -0.33)

- a. ₹ 11,550
- b. ₹ 12,550
- c. ₹ 10,550
- d. ₹ 13,560

46. Which will be the next alphanumeric term of the following series? (+1, -0.33)

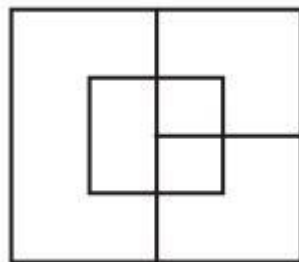
4R, 7P, 10N, 13L, ?

- a. 16X
- b. 12K
- c. 16J
- d. 15V

47. The weight of an object on Earth is 200 N and its mass is 20 kg. What will be the value of acceleration due to gravity? (+1, -0.33)

- a. 10 m/s^2
- b. 9.8 m/s^2
- c. 10 m/s^{-2}
- d. 9.8 m/s^{-2}

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



- a. 6
- b. 4

c. 10

d. 8

49. A bullet of mass 20 g is fired horizontally with a velocity of 150 ms^{-1} from a pistol of mass 3 kg. What is the recoil velocity of the pistol? (+1, -0.33)

a. -1.5 ms^{-1}

b. -1.25 ms^{-1}

c. -2.0 ms^{-1}

d. -1.0 ms^{-1}

50. Prashanti Singh is related to which of the following sports? (+1, -0.33)

a. Badminton

b. Cricket

c. Basketball

d. Table Tennis

51. Select the option that is NOT true with respect to the circulatory system. (+1, -0.33)

a. Blood is commonly called the 'River of Life'.

b. In it, blood flows at high pressure, in jerks and rapidly.

c. It is about 7-8% of the body weight.

d. The lifespan of human red blood cells (RBCs) is 15-20 days.

52. The ratio of the ages of Deepika and her mother is 3 : 11. After 3 years, their ages are in the ratio 1 : 3. What is Deepika's age? (+1, -0.33)

- a. 9 years
- b. 11 years
- c. 13 years
- d. 15 years

53. A _____ mirror always forms an image of the object that is virtual, erect and of the same size. (+1, -0.33)

- a. Plano-convex
- b. Concave
- c. Convex
- d. Plane

54. Every object in the universe attracts every other object with a force which is: (+1, -0.33)

- a. proportional to the sum of their masses and inversely proportional to the square of the distance between them
- b. proportional to the product of their masses and inversely proportional to the square of the distance between them
- c. proportional to the product of their masses and proportional to the square of the distance between them

- d. inversely proportional to the product of their masses and proportional to the square of the distance between them

-
55. Treat the given statements as true even if they appear to differ from commonly known facts, and decide which of the given conclusions logically follow from the statements. (+1, -0.33)

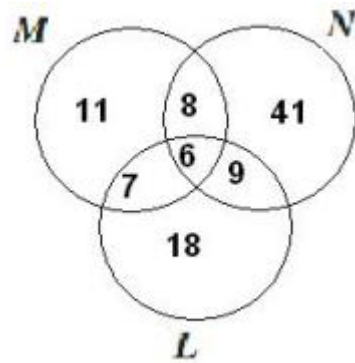
Statements:

1. Some rabbits are cats.
2. All cats are papayas.

Conclusions:

1. All papayas are cats.
 2. Some rabbits are papayas.
- a. Both 1 and 2 follow.
 - b. Only 2 follows.
 - c. Either 1 or 2 follows.
 - d. Only 1 follows.

-
56. The above Venn diagram shows the students who play 3 sports M, N and L in a class. The total number of students who play sport L is? (+1, -0.33)



- a. 41
- b. 40
- c. 18
- d. 23

57. Blood is a _____ tissue. (+1, -0.33)

- a. Muscular
- b. Connective
- c. Vascular
- d. Nervous

58. 69 persons can complete a certain work in 6 days. How many days will 23 persons take to complete the same work? (+1, -0.33)

- a. 18
- b. 10
- c. 16

d. 15

59. How many total medals did India win at the 22nd Asian Athletics Championship held in Bhubaneswar between 6 to 9 July 2017? (+1, -0.33)

a. 26

b. 29

c. 27

d. 28

60. What is the Highest Common Factor (HCF) of 44, 88 and 154? (+1, -0.33)

a. 8

b. 22

c. 11

d. 44

61. Read the given statement and assumptions and decide which assumption is implicit in the statement. (+1, -0.33)

Statement:

Never heard this song rendered so beautifully.

Assumptions:

I. Some other songs were sung.

II. It is impossible to sing the song so beautifully.

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

62. The value of $\sqrt{0.6}$ is: (+1, -0.33)

- a. 0.774
- b. 0.944
- c. 0.894
- d. 0.874

63. Hiru bought an old car for Rs 47,000 and spent Rs 3,000 on its repairs. If he sells the car for Rs 58,000, what will be his profit percentage? (+1, -0.33)

- a. 18%
- b. 17%
- c. 15%
- d. 16%

64. What is the smaller of the two angles made by the hour hand and the minute hand at 12:23 pm? (+1, -0.33)

- a. 126.5°

- b. 126°
- c. 127.5°
- d. 138°

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

Statement:

This restaurant serves the best 'Hot and Sour Soup'.

Conclusions:

- I. Other restaurants also serve soup.
 - II. The soup served at this restaurant is the best soup in the world.
- a. Only conclusion II follows
 - b. Both I and II follow
 - c. Only conclusion I follows
 - d. Neither I nor II follows

66. Which day will fall on 1 November 2020? (+1, -0.33)

- a. Saturday
- b. Sunday
- c. Friday
- d. Thursday

67. Who was conferred the Rajiv Gandhi Khel Ratna Award for para-athletics in 2017? (+1, -0.33)

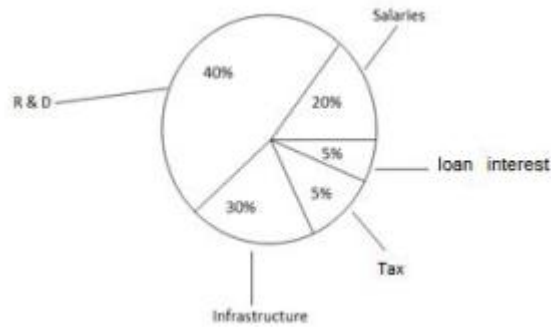
- a. Varun Bhati
- b. Deepa Malik
- c. Devendra Jhajharia
- d. P. Mariyappan

68. Find the potential energy acquired by a hammer of mass 15 kg when it is raised to a height of 10 m. ($g = 10 \text{ ms}^{-2}$) (+1, -0.33)

- a. -150 J
- b. 150 J
- c. 1500 J
- d. -1500 J

69. Study the following pie chart and answer the question based on it. The pie chart gives the expenditure of company XYZ on various heads in the third quarter of 2015. (+1, -0.33)

If company XYZ spends a total of Rs 120 lakh crore, how much (in Rs lakh crore) does the company spend on its infrastructure?



- a. Rs 48
- b. Rs 36
- c. Rs 12
- d. Rs 24

70. How much work has to be done to transfer a charge of 2 C between two points having a potential difference of 10 V? (+1, -0.33)

- a. 20 Pa
- b. 20 J
- c. 20 C
- d. 20 N

71. The four angles of a quadrilateral are in the ratio 3 : 4 : 5 : 6. What is the value of the smallest angle? (+1, -0.33)

- a. 60°
- b. 45°
- c. 36°

d. 49°

72. If $\tan A = \frac{3}{4}$, what is the value of $\frac{(1 - \sin A)(1 + \sin A)}{(1 - \cos A)(1 + \cos A)}$? (+1, -0.33)

a. $\frac{16}{9}$

b. $\frac{9}{25}$

c. $\frac{9}{19}$

d. $\frac{16}{25}$

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

Statements:

I. All bats are black.

II. Some black are feathers.

Conclusions:

1. All bats are feathers.

2. Some feathers are black.

a. Only conclusion 1 follows.

b. Neither 1 nor 2 follows.

c. Only conclusion 2 follows.

d. Both 1 and 2 follow.

74. If West becomes South, what will North become? (+1, -0.33)

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

75. The square root of 10816 is _____. (+1, -0.33)

- a. 114
 - b. 106
 - c. 104
 - d. 96
-

76. Before being nominated as the National Democratic Alliance's candidate for the post of President, Ram Nath Kovind had resigned from which of the following posts? (+1, -0.33)

- a. Governor of Bihar
 - b. Governor of Tamil Nadu
 - c. Governor of West Bengal
 - d. Governor of Andhra Pradesh
-

77. Plants that grow in saline water are called? (+1, -0.33)

- a. Hydrophyta
- b. Halophyta
- c. Macrophyta
- d. Xerophyta

78. Who demonstrated that light is an electromagnetic wave by unifying electromagnetism and optics? (+1, -0.33)

- a. Sheldon Glashow
- b. Carlo Rubbia
- c. James Maxwell
- d. Isaac Newton

79. $\text{MnO}_2 + 4\text{HCl} \rightarrow \text{MnCl}_2 + \text{H}_2\text{O} + \text{Cl}_2$ The given reaction is an example of a ----- reaction. (+1, -0.33)

- a. Combination
- b. Double displacement
- c. Displacement
- d. Redox

80. Choose the most appropriate option for the following situation: (+1, -0.33)

'At a party your friend accidentally spills coffee on you.' In this situation, you will-

- a. Laugh it off
 - b. Scold your friend
 - c. Throw coffee on your friend too
 - d. Be upset inside but still say 'no problem'
-

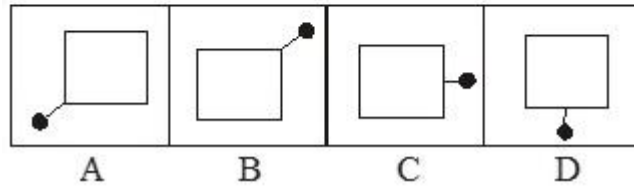
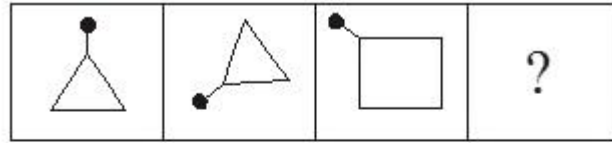
81. I and J are standing face-to-face with each other. I is facing south-west. (+1, -0.33)
In which direction is J facing with respect to I?

- a. South-west
 - b. South-east
 - c. North-east
 - d. North-west
-

82. What is the largest number which, when 1657 and 2037 are divided by it, (+1, -0.33)
leaves remainders of 6 and 5 respectively?

- a. 130
 - b. 150
 - c. 125
 - d. 127
-

83. Which answer figure will come in place of '?' in the following question (+1, -0.33)
figure series?



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

84. Which type of tissue has different kinds of cells performing a similar function? (+1, -0.33)

- a. Meristematic tissue
- b. Complex tissue
- c. Epidermal tissue
- d. Nervous tissue

85. The measure of each interior angle of a regular heptagon is _____. (+1, -0.33)

- a. 126.37°
- b. 148.24°
- c. 128.57°

d. 137.56°

86. Multiply 8795 by 125: (+1, -0.33)

a. 1099375

b. 1098375

c. 1099345

d. 1099305

87. The ratio of two numbers is 2 : 7. If 4 is added to each number, the ratio between them becomes 4 : 9. What are the original numbers? (+1, -0.33)

a. 8, 18

b. 6, 21

c. 4, 14

d. 2, 7

88. The shadow of a 48 m tall building is 32 m long at a certain time. What will be the length of the shadow of a 144 m tall tower at the same time? (+1, -0.33)

a. 112 m

b. 96 m

c. 128 m

d. 84 m

89. If \$ means +, # means -, @ means $\times$ and * means $\div$, then what will be the value of $19 \$ 8 @ 3 \# 81 * 9$? (+1, -0.33)

- a. 38
- b. 35
- c. 34
- d. 36

90. Who was awarded the 'Bhupen Hazarika National Award 2017'? (+1, -0.33)

- a. Lou Majaw
- b. Jahnu Barua
- c. Yeshe Dorjee Thongchi
- d. Gopal Krishnan

91. If a person's salary increases by 11% in the first year and decreases by 11% in the second year, what will be the percentage change in his salary at the start of the third year relative to the initial salary? (+1, -0.33)

- a. +1.22
- b. -1.23
- c. -1.21
- d. +1.21

92. _____ occurs in Spirogyra and Planaria. (+1, -0.33)

- a. Fertilisation
- b. Budding
- c. Reproduction by ovule
- d. Regeneration

93. Read the statement and assumptions below and decide which assumption is implicit in the statement. (+1, -0.33)

Statement:

The headline of a newspaper column reads "We are all victims of our own thoughts".

Assumptions:

- I. Our actions are based on our thoughts.
- II. Newspapers are the best source of information.

- 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

94. Who is the current Governor of the Reserve Bank of India? (+1, -0.33)

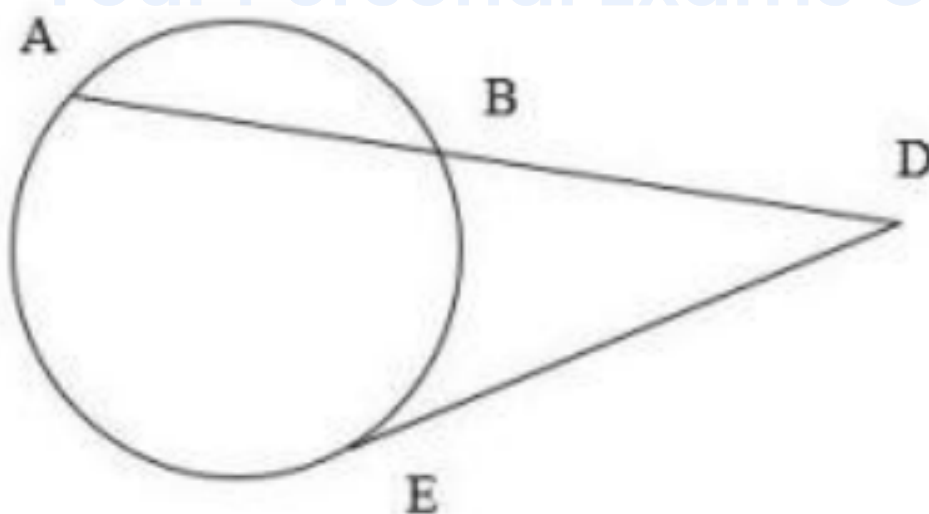
- a. Raghuram Rajan

- b. Urjit Patel
- c. D. Subbarao
- d. Y.V. Reddy

95. $\frac{5}{8}$ of the residents of a housing society own cars, and $\frac{3}{4}$ of these car owners have bought a covered parking space. If 150 people have bought a covered parking space, how many residents were there in the society? (+1, -0.33)

- a. 336
- b. 352
- c. 320
- d. 360

96. In the circle shown below, chord AB is extended to meet the tangent DE at point D. If $AB = 6$ cm and $BD = 2$ cm, find the length of DE. (+1, -0.33)



- a. 5 cm

b. $\sqrt{12}$ cm

c. 4.5 cm

d. 4 cm

97. What is the highest common factor of 30, 42 and 96? (+1, -0.33)

a. 4

b. 6

c. 2

d. 8

98. Who was given the prestigious 'Saraswati Samman' in 2016? (+1, -0.33)

a. Farooqi

b. Sugathakumari

c. Sunita Jain

d. Mahabaleshwar Sail

99. How many chromosomes are present in a human sperm? (+1, -0.33)

a. 22

b. 24

c. 21

d. 23

100. Rajesh is the son of the sister of Madhuri's only brother. How is Madhuri's father related to Rajesh? (+1, -0.33)

- a. Son
- b. Grandfather
- c. Cousin
- d. Uncle

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