



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-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.

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Test

1. The father's age is twice the age of his elder son. After 10 years, the father's age will be three times the age of his younger son. If there is a difference of 15 years between the two sons' ages, find the father's age. (+1, -0.33)
- a. 50 years
 - b. 65 years
 - c. 55 years
 - d. 60 years
-
2. What is the side length of the largest square tile that can be used to tile a floor of dimensions 13.92 m long and 5.22 m wide? (+1, -0.33)
- a. 87 cm
 - b. 58 cm
 - c. 1 m 16 cm
 - d. 1 m 74 cm
-
3. What is the colour of the inside of a solar cooker? (+1, -0.33)
- a. Brown
 - b. Blue
 - c. Black
 - d. White

4. Consider the given statement and decide which of the assumptions is/are implicit. (+1, -0.33)

Statement: The manager of the garment company announced, "We are going to expand our company, so we need to hire more tailors."

Assumptions:

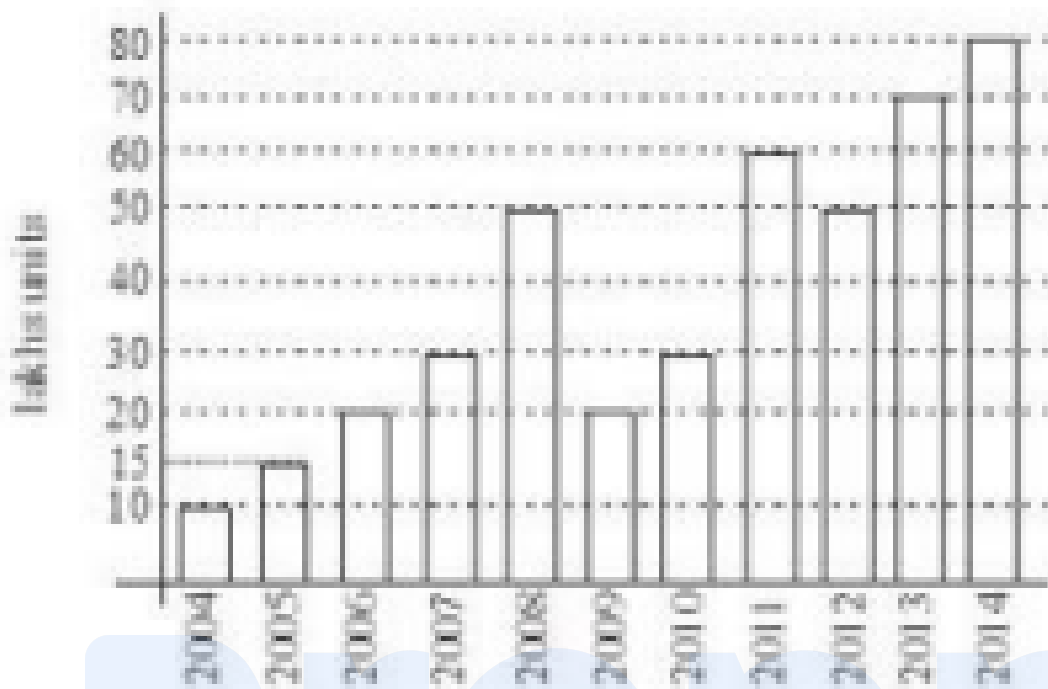
- (I) The existing tailors are unable to make modern designs
- (II) After expansion, sales will be more
- (III) Before expansion, higher production is required

- a. Only I is implicit
- b. Only II is implicit
- c. III and I are implicit
- d. II and III are implicit

5. Which of the following is the least electronegative basic element? (+1, -0.33)

- a. Ag and Au
- b. Pt
- c. Cs
- d. Al and Li

6. The bar graph below shows information on personal computers sold by company XYZ in the last 10 years. During 2004 to 2010, in which year were sales maximum? (+1, -0.33)



- a. 2004
- b. 2006
- c. 2010
- d. 2008

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7. When light enters from a rarer medium into a denser medium, it slows down and _____. (+1, -0.33)
- a. bends away from the normal
 - b. undergoes no change
 - c. bends towards the normal
 - d. gets reflected in the medium of lower density

8. Four names of persons are given below, three of which are similar in some way and one is different. Choose the different person. (+1, -0.33)

- a. C. V. Raman
- b. Subhash Chandra Bose
- c. Mahatma Gandhi
- d. Bhagat Singh

9. Which state governments have signed agreements with Indian Oil Corporation (IOC) to set up bio-gas and bio-CNG plants? (+1, -0.33)

- a. Punjab
- b. Uttarakhand
- c. Rajasthan
- d. Gujarat

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

Statements:

- 1. No tree is barren.
- 2. Some barren are lands.

Conclusions:

- I. Some trees are lands.
- II. Some barren are trees.

- a. Only conclusion I follows
- b. Only conclusion II follows

- c. Both conclusions I and II follow
 - d. Neither I nor II follows
-

11. According to current data, which of the following is a 'tribal language of India'? (+1, -0.33)

- a. Gondi
 - b. Bhojpuri
 - c. Konkani
 - d. Maithili
-

12. In the modern periodic table, what are the Group 18 elements (all except helium which has eight electrons in its outermost shell) called? (+1, -0.33)

- a. Transition elements
 - b. Inert gases
 - c. Metalloids
 - d. Rare earth elements
-

13. If $x^2 + mx + n$ is a perfect square, what is the relation between m and n ? (+1, -0.33)

- a. $m^2 = 2n$
- b. $m^2 = 4n$
- c. $m^2 = n$

d. $m = n$

14. The following facilities are available at a club with the monthly usage charges: Gym ₹1,500, Swimming Pool ₹500 and Tennis Court ₹1,000. The table below shows the current list of their users. What is the total monthly income from all users? (+1, -0.33)

Facility	Number of users
Gym	200
Swimming Pool	300
Tennis Court	150

- a. ₹6,50,000
b. ₹6,00,000
c. ₹3,00,000
d. ₹1,50,000

15. If the LCM and HCF of two integers are 2184 and 2 respectively, and one of them is 78, find the other number. (+1, -0.33)

- a. 34
b. 68
c. 56
d. 78

16. Geet Sethi is known for which sport? (+1, -0.33)

- a. Badminton
- b. Hockey
- c. Billiards and Snooker
- d. Chess

17. Find the product of the largest 4-digit number and the largest 3-digit number. (+1, -0.33)

- a. 9980001
- b. 9989001
- c. 9089001
- d. 9989000

18. Lotus is the state flower of _____. (+1, -0.33)

- a. Odisha
- b. Manipur
- c. Punjab
- d. Karnataka

19. Who won the 10th edition of the Indian Premier League (IPL)? (+1, -0.33)

- a. Mumbai Indians
- b. Rising Pune Supergiant
- c. Delhi Daredevils
- d. Gujarat Lions

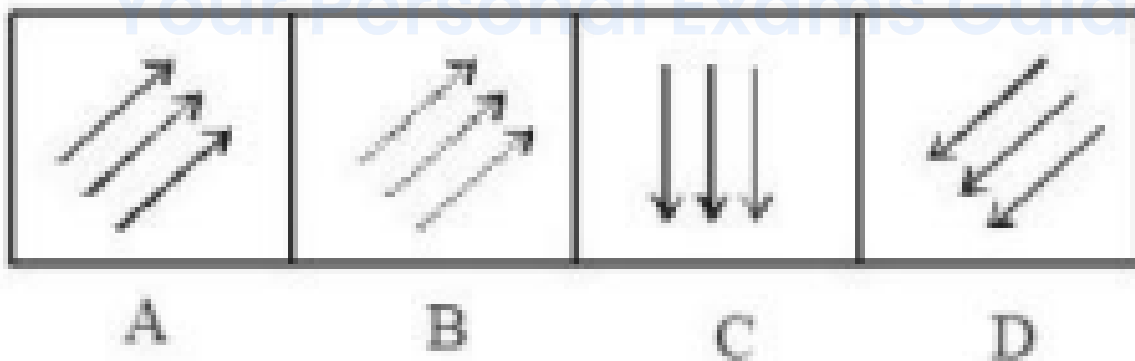
20. What is the HCF of 40, 36, 15 and 24?

(+1, -0.33)

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

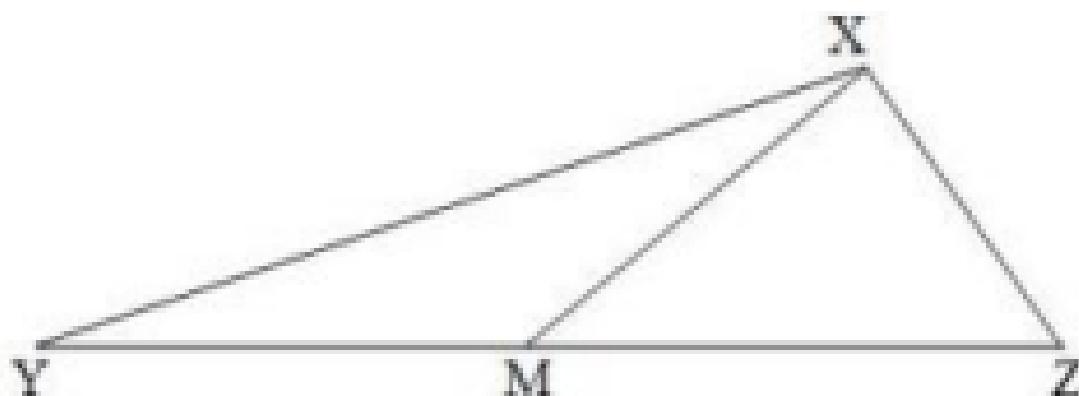
21. Three of the following four figures are similar in a specific way while the fourth is different. Identify the odd figure.

(+1, -0.33)



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

d. A



22. In the given figure, M is the midpoint of YZ, $\angle XMZ = 28^\circ$, and $\angle XYZ = 14^\circ$. (+1, -0.33)
What is the value of $\angle XZY$?

- a. 66°
- b. 86°
- c. 81°
- d. 76°

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

- a. $3\sqrt{5}$ km
- b. $2\sqrt{5}$ km
- c. $\sqrt{5}$ km
- d. 5 km

24. ₹2,665 is divided into two parts such that the simple interest on the first part at 3% for 8 years equals the simple interest on the second part at 5% for 3 years. Find the second part. (+1, -0.33)

- a. ₹1,660
- b. ₹1,640
- c. ₹1,540
- d. ₹1,560

25. Which day of the week was 26 January 2018? (+1, -0.33)

- a. Wednesday
- b. Tuesday
- c. Friday
- d. Saturday

26. What will replace the question mark (?) in the following series? (+1, -0.33)
Q, T, W, Z, ?, F

- a. C
- b. M
- c. G
- d. K

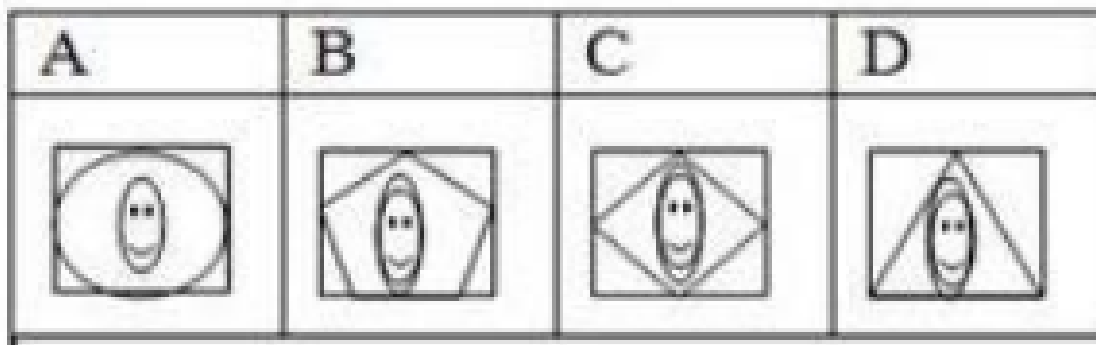
27. If 20 persons can complete a work in 25 days, how many persons will finish it in 10 days? (+1, -0.33)

- a. 50
- b. 60
- c. 45
- d. 100

28. Animals belonging to the group _____ have jointed legs. (+1, -0.33)

- a. Porifera
- b. Mollusca
- c. Annelida
- d. Arthropoda

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



- a. A
- b. D

c. B

d. C

30. Guru Nanak Dev ji founded Sikhism in the _____ century CE. (+1, -0.33)

a. Twelfth

b. Eighteenth

c. Thirteenth

d. Fifteenth

31. If each side of a polygon is 2.9 cm long and its perimeter is 23.2 cm, find the number of sides. (+1, -0.33)

a. 6

b. 5

c. 4

d. 8

32. Which day of the week will 30 May 2020 fall on? (+1, -0.33)

a. Saturday

b. Monday

c. Sunday

d. Wednesday

33. Two brothers run two rented shops (Shop 1 and Shop 2). At month end, they pool the earnings and divide for household expenses. 90% of Shop 2 income covers basic necessities, and 60% of Shop 1 income covers rent and other business needs. If they earn ₹2,00,000 in a month (Shop 1: ₹1.5 lakh, Shop 2: ₹50,000), how much money (in ₹) remains for unexpected expenses? (+1, -0.33)

- a. 60,000
- b. 50,000
- c. 65,000
- d. 40,000

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

Statement: To enforce discipline, trucks are weighed at a weighbridge and if overloaded, a ₹6,000 fine is imposed.

Conclusions:

- I. The government wants to enforce strict compliance with safety rules by truck owners.
- II. The government does not understand truck owners' problems.

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

35. S and R together can finish a work in 42 days. They started together but S left 12 days before completion, so total time taken was 51 days. In how many days would S alone finish the work? (+1, -0.33)

- a. 56
 - b. 168
 - c. 84
 - d. 70
-

36. A solution has 47 g of salt in 320 g of water. Calculate the mass-by-mass percentage concentration of the solution. (+1, -0.33)

- a. 12.8 %
 - b. 12.61 g
 - c. 11.61 %
 - d. 12.57 %
-

37. What is the capital of Nagaland? (+1, -0.33)

- a. Agartala
 - b. Aizawl
 - c. Imphal
 - d. Kohima
-

38. Simplify the expression:

(+1, -0.33)

$$\left(\frac{2}{3} \times \frac{1}{6}\right) + \left(\frac{5}{3} \times \frac{7}{2}\right) - \left(\frac{13}{4} \times \frac{4}{3}\right) = ?$$

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

b. $\frac{31}{9}$

c. $\frac{29}{18}$

d. $\frac{15}{18}$

39. Read the given statement and find the rational conclusion(s).

(+1, -0.33)

Statement: This is the best market to buy gifts at very affordable prices.

Conclusions:

I. Many other places are also available for buying gifts.

II. One can get gifts at the lowest prices from this market.

a. Neither I nor II follows

b. Only conclusion II follows

c. Both I and II follow

d. Only conclusion I follows

40. A. Amalraj was conferred the 2017 Arjuna Award for his contribution to which sport?

(+1, -0.33)

a. Archery

b. Cricket

c. Table Tennis

d. Tennis

41. 3 R # 2 A S K 5 % T 7 & N Y + X B / L Q @ 1 (+1, -0.33)

If the second half of this series is reversed, how many numbers are immediately preceded by a letter and immediately followed by a symbol?

a. 2

b. 3

c. 1

d. 0

42. Anish wrote a series and asked Manish to fill the next terms. From the options, choose the terms that complete the series. (+1, -0.33)

AZ, CX, EV, _____, _____

a. HT, JR

b. GU, IR

c. GT, IS

d. GT, IR

43. Raghu and Sita's current ages are 17 and 41 years respectively. 5 years ago, Raghu's age was _____ of Sita's age. (+1, -0.33)

a. two-thirds

b. three-fourths

c. half

d. one-half

e. none of these

f. all of these

g. none of these

h. all of these

i. none of these

j. all of these

k. none of these

l. all of these

m. none of these

n. all of these

o. none of these

p. all of these

q. none of these

r. all of these

s. none of these

t. all of these

u. none of these

v. all of these

w. none of these

x. all of these

y. none of these

z. all of these

aa. none of these

ab. all of these

ac. none of these

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by. none of these

bz. all of these

ca. none of these

cb. all of these

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cg. none of these

ch. all of these

ci. none of these

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cl. all of these

cm. none of these

cn. all of these

co. none of these

cp. all of these

cq. none of these

cr. all of these

cs. none of these

ct. all of these

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cv. all of these

cw. none of these

cx. all of these

cy. none of these

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dc. none of these

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gv. all of these

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hv. all of these

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jc. all of these

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je. all of these

jf. none of these

jh. all of these

ji. none of these

jj. all of these

jk. none of these

jl. all of these

jm. none of these

jn. all of these

jo. none of these

jp. all of these

jq. none of these

d. one-third

44. Which of the following departments calculates India's GDP? (+1, -0.33)

- a. Ministry of Finance
 - b. Department of Revenue
 - c. Economic Affairs
 - d. Central Statistical Office (CSO)
-

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

- A. Reversible reaction: When fats and oils are oxidised, they undergo a reversible reaction and their smell and taste change.
- B. When the surface of a reactive metal is affected by air, water or surrounding substances, it is said to be corroded and this effect is called corrosion.

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

46. The title 'Grandmaster' is awarded in which sport? (+1, -0.33)

- a. Hockey
- b. Cricket
- c. Tennis

d. Chess

47. If $43 \times 36 = 1548$, what is the value of $0.001548 \div 3.6$? (+1, -0.33)

a. 0.43

b. 0.0043

c. 0.043

d. 0.00043

48. Udupi Ramachandra Rao was conferred the Padma Vibhushan in 2017 for his contribution to which field? (+1, -0.33)

a. Public Affairs

b. Art and Music

c. Literature and Education

d. Science and Engineering

49. The unit of 'g' is the same as the unit of acceleration, i.e. _____. (+1, -0.33)

a. ms^{-1}

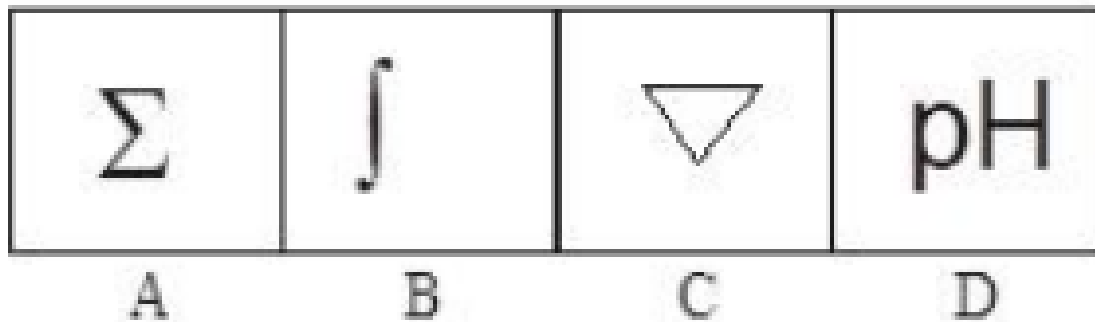
b. ms^1

c. ms^{-2}

d. ms^2

50. Identify the odd one:

(+1, -0.33)



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

51. Arjun Reddy is twice as good a workman as Badri. Together they finish a task in 14 days. In how many days will Arjun and Badri complete the work independently?

(+1, -0.33)

- a. 21 days, 42 days
- b. 8 days, 16 days
- c. 19 days, 38 days
- d. 12 days, 24 days

52. A child holds a ball of $\frac{1}{4}$ kg in his hand and throws it vertically upward. His hand rises 10 cm and the ball leaves his hand with an upward velocity of 2 ms^{-1} . What is the constant force applied by the child to throw the ball?

(+1, -0.33)

- a. 15 N
 - b. 5 N
 - c. 10 N
 - d. 7.5 N
-

53. If points A $(k, 2k)$, B $(3k, 2k)$, C $(3, 1)$ are collinear, find the value of k . (+1, -0.33)

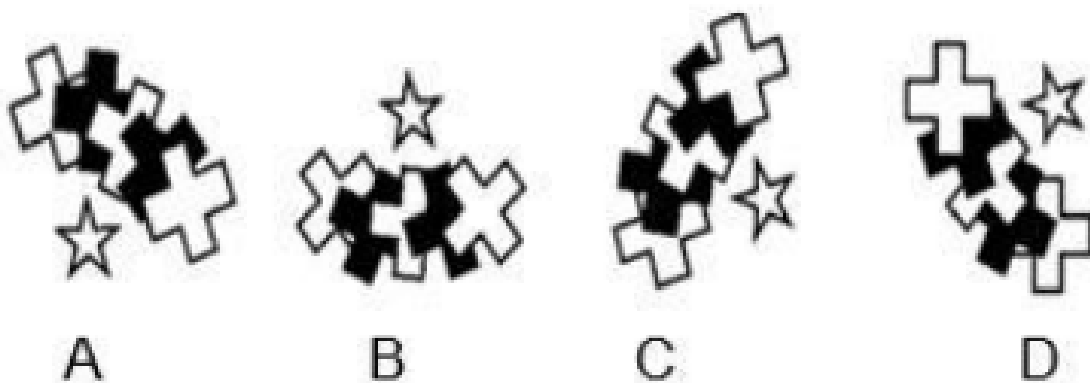
- a. $-\frac{1}{3}$
 - b. $\frac{1}{3}$
 - c. $-\frac{2}{3}$
 - d. $\frac{2}{3}$
-

54. Which denominations of notes have been completely discontinued after demonetisation? (+1, -0.33)

- a. ₹200
 - b. ₹500
 - c. ₹2000
 - d. ₹1000
-



55. Which figure will be formed by rotating the given figure? (+1, -0.33)



a. D

b. B

c. A

d. C

56. How many people were conferred the Padma Vibhushan in the field of Art and Music in the year 2017? (+1, -0.33)

a. 0

b. 3

c. 1

d. 2

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

A. In helium gas, speed of sound is 965 km/s.

B. In hydrogen gas, speed of sound is 1284 m/s.

a. Only B is true

b. Only A is true

c. Neither A nor B is true

d. Both A and B are true

58. The average of three numbers is 28. If 7 is added to the smallest number and 10 is subtracted from the largest, the middle number equals the arithmetic mean and the range of this new set becomes 20. What is the largest number in the original set of three? (+1, -0.33)

a. 50

- b. 45
 - c. 40
 - d. 47
-

59. Sperms are formed in _____. (+1, -0.33)

- a. Ureter
 - b. Scrotum
 - c. Testis
 - d. Prostate gland
-

60. Find the odd one from the given options. (+1, -0.33)

- a. Door
 - b. Shutter
 - c. Shelf
 - d. Window
-

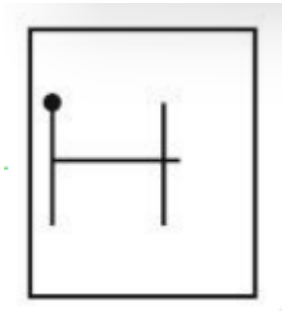
61. _____ connects muscles to bones. (+1, -0.33)

- a. Cartilage
- b. Areolar
- c. Ligament

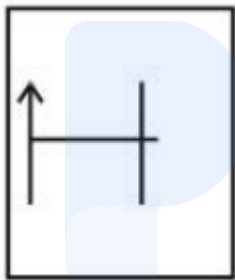
d. Tendon

62. Identify the odd one:

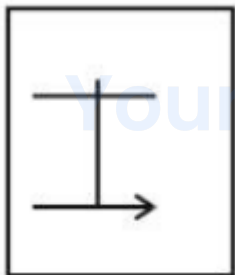
(+1, -0.33)



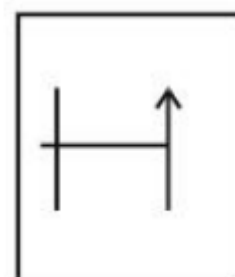
a.



b.



c.



d.

63. Should there be a complete ban on tree-cutting? (+1, -0.33)

Arguments:

I. Yes, tackling global warming is necessary.

II. No, a total ban would affect wood-related industries and professionals.

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

64. Which of the following metals is the most malleable? (+1, -0.33)

- a. Al
- b. Na
- c. Ag
- d. Zn

65. Which of the following option figures is similar to the question figure? (+1, -0.33)

Question Figure:



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Option Figures:

A	B	C	D

a. C

b. B

c. A

d. D

66. Shravani is Prabhu's mother. How is the father of Prabhu's only sister related to Shravani? (+1, -0.33)

a. Cousin brother

b. Uncle

c. Brother

d. Husband

67. Mr X and Mr Y start a business with investments of ₹40,000 and ₹50,000 respectively. They agree to share 50% of the profit equally and split the remainder in proportion to their investments. If Mr X receives ₹800 less than Mr Y, find Mr X's total profit. (+1, -0.33)

a. 5800

b. 7800

c. 4800

d. 6800

68. In a group of people, 10 bought mangoes, 15 bought guavas and 20 bought pineapples. 2 persons bought all three and 6 persons bought at least 2 fruits. How many persons bought only one fruit? (+1, -0.33)

- a. 45
- b. 25
- c. 31
- d. 40

69. What is the definition of mass? (+1, -0.33)

- a. Mass can be determined on the basis of chemical equilibrium.
- b. The mass of an object is constant everywhere and is not affected by changes in altitude.
- c. The mass of an object is directionless and is therefore a scalar quantity.
- d. The amount of matter contained in an object is called its mass.

70. Avantika introduced a boy to her friend as "the only son of the only daughter of my father". The boy is Avantika's _____. (+1, -0.33)

- a. Brother
- b. Cousin brother
- c. Son
- d. Maternal uncle

71. Why is the scrotum located outside the male body? (+1, -0.33)

- a. Sperm formation requires a temperature higher than normal body temperature.
 - b. Because of the presence of the vas deferens.
 - c. Sperm formation requires a temperature lower than normal body temperature.
 - d. Because of the specialised tissues found in abdominal regions.
-

72. Where was the first International Dam Safety Conference held in 2018? (+1, -0.33)

- a. Thiruvananthapuram
 - b. Hyderabad
 - c. New Delhi
 - d. Chennai
-

73. Who is the CEO of Bandhan Bank? (+1, -0.33)

- a. Rana Kapoor
 - b. Rakesh Sethi
 - c. Chandra Shekhar Ghosh
 - d. Usha Ananthasubramanian
-

74. If X is Y's sister, Z is Y's mother, and W is Z's father, then Z's husband is W's (+1, -0.33)

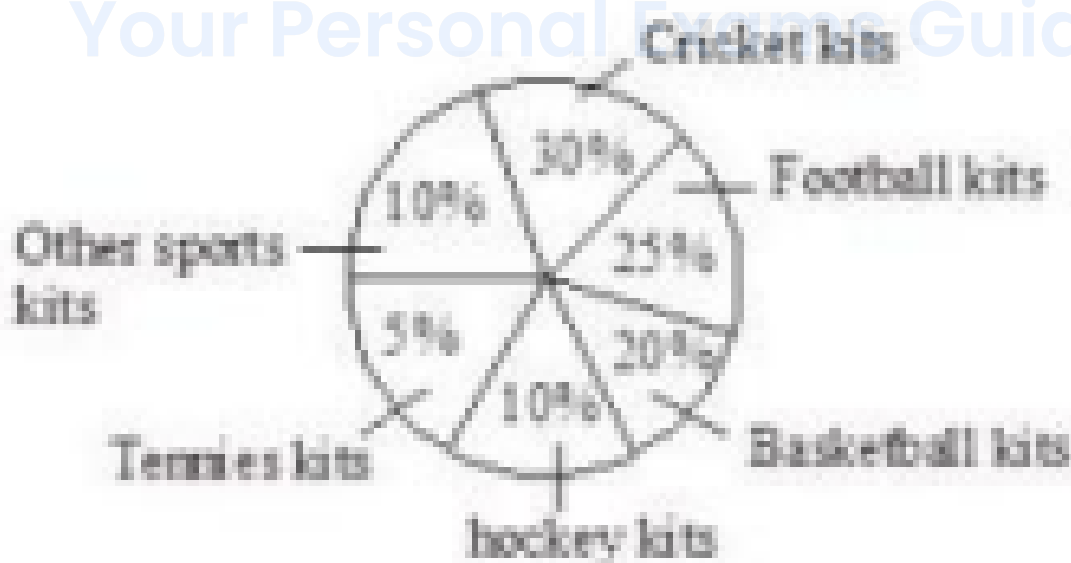
- a. Brother

- b. Son
- c. Father
- d. Son-in-law

75. For work to be said to be done, two conditions must be satisfied. One of them is: (+1, -0.33)

- a. Force is not required.
- b. No change in the object's position.
- c. No absorption or emission of energy.
- d. The object must be displaced.

76. The following pie chart shows the information about the sports kits sold by XYZ Company. The total revenue in the year 2016 was ₹36,82,000. (+1, -0.33)



What was the revenue (in ₹) from "Football kits" in 2016?

- a. 18,41,000
 - b. 4,60,250
 - c. 2,30,125
 - d. 9,20,500
-

77. Which of the following helps in the closing of stomata and shedding of leaves? (+1, -0.33)

- a. Gibberellin
 - b. Cytokinins
 - c. Auxin
 - d. Absciscic acid
-

78. Who is currently the National Deputy Security Adviser? (+1, -0.33)

- a. Pankaj Saran
 - b. R. N. Ravi
 - c. Ajit Doval
 - d. Rajinder Khanna
-

79. Which of the following is NOT an important site of the Indus Valley Civilisation? (+1, -0.33)

- a. Kalibangan
- b. Azamgarh
- c. Mohenjo-daro
- d. Harappa

80. A boy of mass 50 kg climbs 43 steps in 10 s. If each step is 15 cm high, find his power. Take $g = 10 \text{ ms}^{-2}$. (+1, -0.33)

- a. 322.5 W
- b. 322.5 J
- c. 322.5 ms
- d. 337.5 W

81. If 'P' means $\times$, 'R' means $+$, 'T' means $\div$ and 'S' means $-$, what is the value of 51T3P10S4R2? (+1, -0.33)

- a. 172
- b. 196
- c. 184
- d. 168

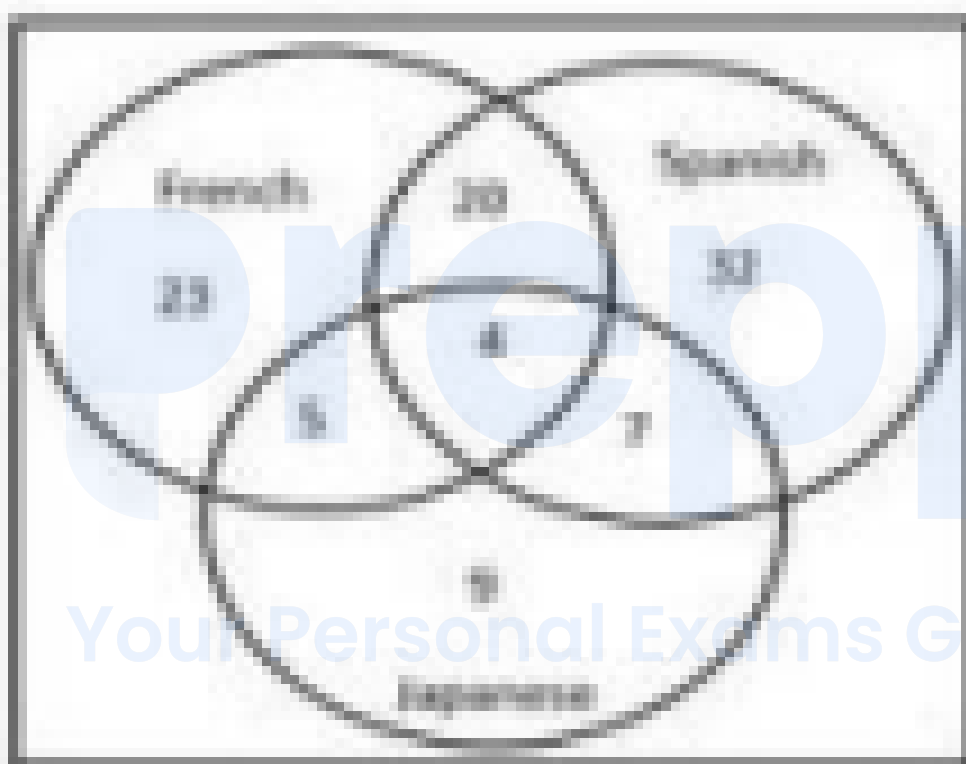
82. Which of the following states does NOT share a border with Telangana? (+1, -0.33)

- a. Chhattisgarh

- b. Maharashtra
- c. Karnataka
- d. Gujarat

83. Study the given Venn diagram and answer the question.

(+1, -0.33)



The Venn diagram shows students in a class studying three subjects. How many students study French and Spanish but not Japanese?

- a. 24
- b. 29

c. 20

d. 4

84. A 100 W electric bulb is used for 8 hours a day. The energy used by the bulb in 5 days is _____ units. (+1, -0.33)

a. 4

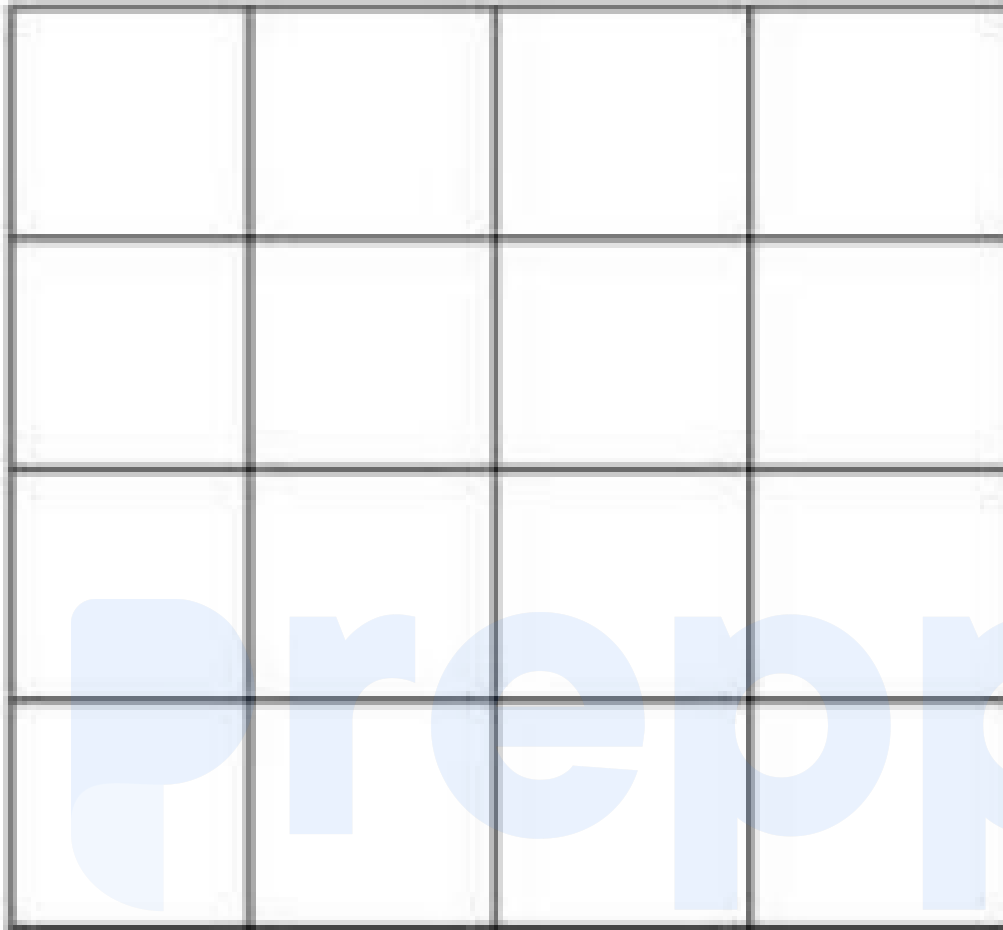
b. 400

c. 40

d. 0.4

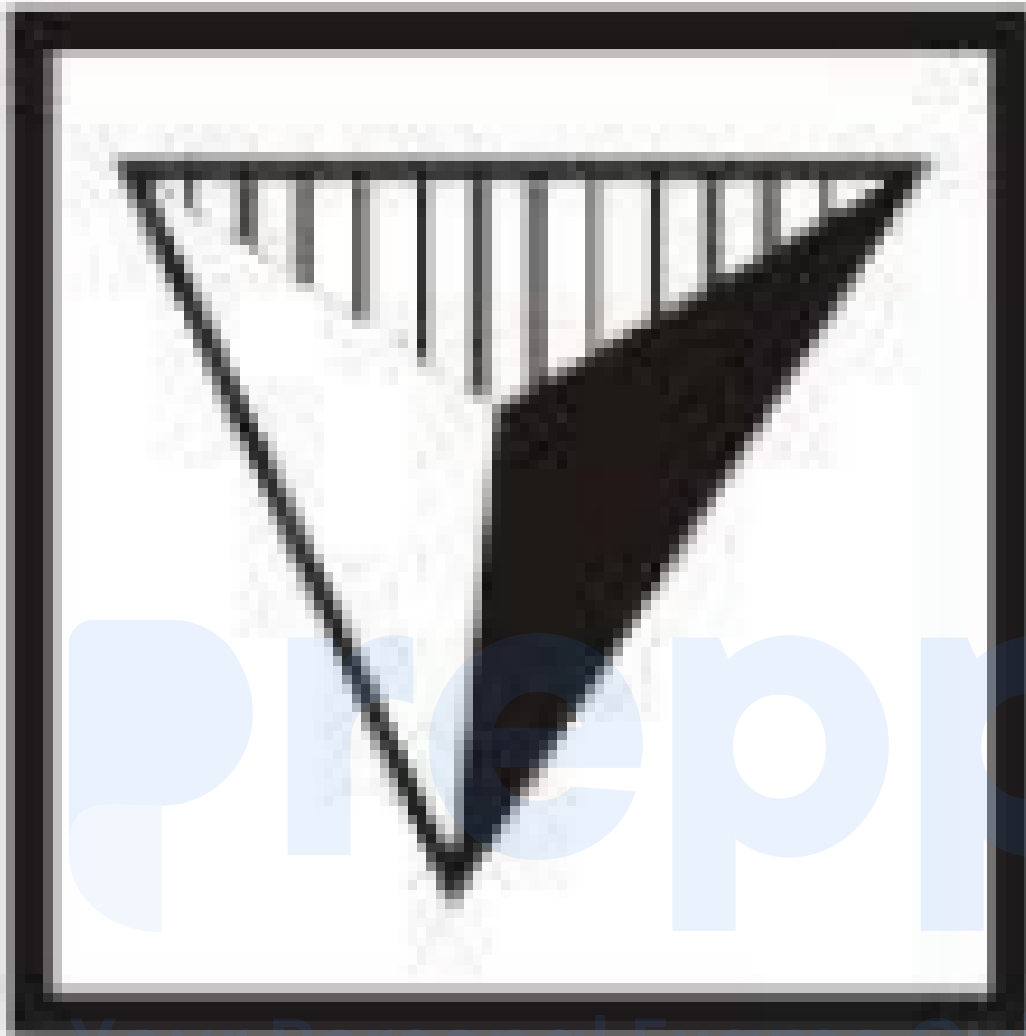
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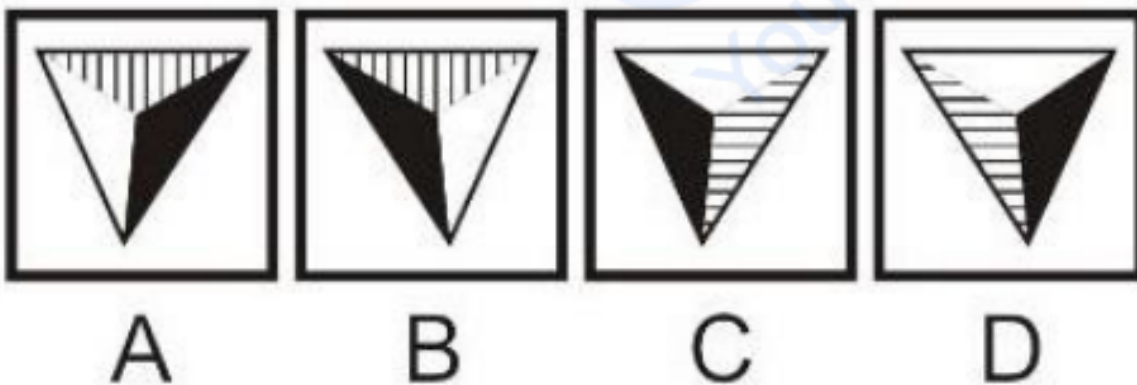
85. The number of squares in the given figure is _____. (+1, -0.33)

- a. 30
- b. 40
- c. 16
- d. 36



86. Which of the following is the mirror image of the above figure?

(+1, -0.33)



a. A

b. B

c. C

d. D

87. Which Bollywood actor was conferred the Lifetime Achievement Award by the PHD Chamber of Commerce and Industry (PHDCCI) in 2017? (+1, -0.33)

a. Asha Parekh

b. Vinod Khanna

c. Sharmila Tagore

d. Raj Babbar

88. ₹78 was divided between Rick and Hannah in the ratio 1:2. How much did Hannah get? (+1, -0.33)

a. ₹26

b. ₹39

c. ₹48

d. ₹52

89. A man divides ₹10,390 between his son and daughter in the ratio 11:10. How much does the son receive? (+1, -0.33)

a. 6000.68

b. 5800.32

c. 5442.38

d. 5390.5

90. An object hits the floor vertically with velocity u and bounces back with the same velocity. Find the change in speed. (+1, -0.33)

a. 0

b. u

c. $2u$

d. $u/2$

91. 1 atmosphere = ----- (+1, -0.33)

a. $1.01 \times 10^5 \text{ Pa}$

b. $10.1 \times 10^6 \text{ Pa}$

c. $1.01 \times 10^6 \text{ Pa}$

d. $10.1 \times 10^5 \text{ Pa}$

92. The relative molecular mass of carbon dioxide is _____. (+1, -0.33)

a. 34μ

b. 40μ

c. 44μ

d. 32μ

93. How much work is done in moving a charge of 5 C between two points having a potential difference of 10 V? (+1, -0.33)

- a. 10 J
- b. 50 J
- c. 5 J
- d. 2 J

94. Edappadi Palaniswami took oath as the Chief Minister of which Indian state in 2017? (+1, -0.33)

- a. Kerala
- b. Karnataka
- c. Andhra Pradesh
- d. Tamil Nadu

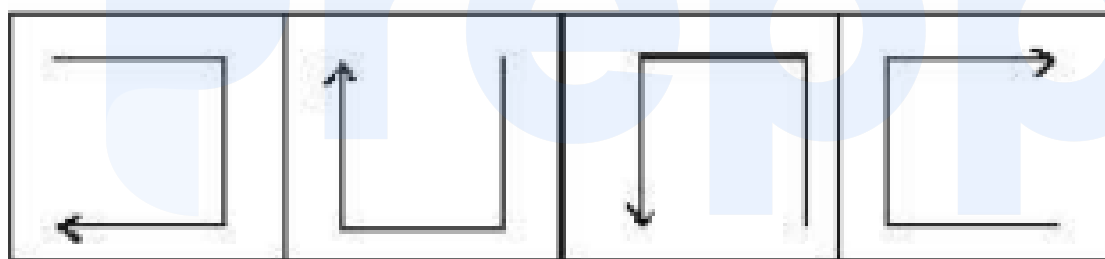
95. A point divides a line segment joining (4, 5) and (-3, 3) internally in the ratio 2:3. Find the coordinates of the point. (+1, -0.33)

- a. $6/5, 21/5$
- b. $13/5, 17/5$
- c. $11/5, 17/5$
- d. $12/5, 13/5$

96. Two marks are drawn on a wall such that the first is directly above the second. From a point 50 m from the wall, the angles of elevation to the marks are 45° and 60° respectively. Find the total distance between the marks. ($\sqrt{3} = 1.732$) (+1, -0.33)

- a. 36.5 m
- b. 73 m
- c. 36.6 m
- d. 73.2 m

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



A B C D

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

98. What is produced as a result of a reaction between an acid and a base? (+1, -0.33)

- a. Salt and water

- b. Base
 - c. Acid
 - d. Salt and oxygen
-

99. _____ are seedless vascular plants that share a unique life cycle with independent gametophyte and sporophyte stages, and are often discussed together with vascular plants due to shared characteristics. (+1, -0.33)

- a. Pteridophyta
 - b. Angiosperms
 - c. Gymnosperms
 - d. Bryophyta
-

100. Find the ratio of the total surface area of a cuboid formed by placing three cubes in a row to the total surface area of the three separate cubes. (+1, -0.33)

- a. 9 : 11
- b. 2 : 3
- c. 7 : 9
- d. 4 : 5