



Your Personal Exams Guide



NDA



CDS



SSC CGL



CBSE UGC NET



IAS



SSC CHSL



CTET



MPSC



AFCAT



CSIR UDC NET



IBPS PO



UP POLICE



SSC MTS



SBI PO



BPSC



UP TET



IBPS RRB



IBPS CLERK



IES



UPSC CAPF



SSC Stenogr..



RRB NTPC



SSC GD



RBI GRADE B



RBI Assistant



DSSSB

RRB Group D 2018 Question Paper (22-Oct-2018) (Shift 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.

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Test

1. Which of the following element's ion is the largest? (+1, -0.33)

- a. Si
- b. Mg
- c. Na
- d. Al

2. $(m + 2) \sin \theta + (2m - 1) \cos \theta = 2m + 1$ is correct if - (+1, -0.33)

- a. $\tan \theta = \frac{2m}{m^2-1}$
- b. $\tan \theta = \frac{3}{4}$
- c. $\tan \theta = \frac{2m}{m^2+1}$
- d. $\tan \theta = \frac{-3}{4}$

3. You suffered a 10% loss on selling an item for ₹270. What will be the selling price of that item (in ₹) for a 10% profit? (+1, -0.33)

- a. ₹ 290
- b. ₹ 340
- c. ₹ 330
- d. ₹ 310

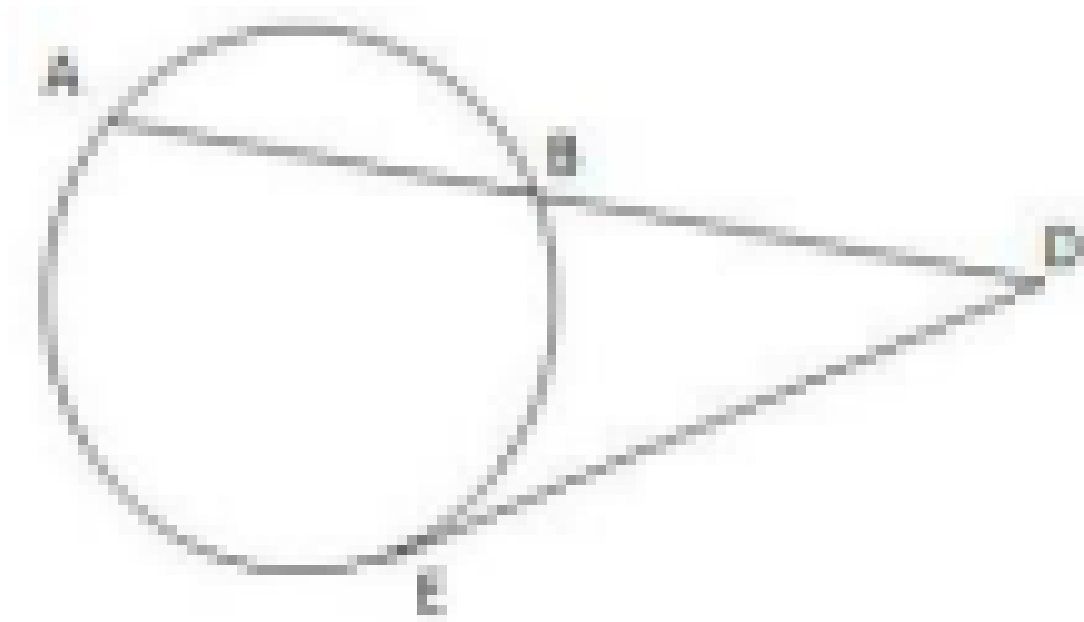
4. A bag contains a red, b yellow and c green tokens. If $a : b :: 4 : 15$ and $b : c :: 9 : 13$, then $a : b : c$ will be: (+1, -0.33)

- a. $4 : 15 : 13$
- b. $16 : 54 : 65$
- c. $4 : 6 : 13$
- d. $12 : 45 : 65$

5. Sudhir Tripathi has been appointed as the Chief Secretary of _____. (+1, -0.33)

- a. Meghalaya
- b. Jharkhand
- c. Bihar
- d. Andhra Pradesh

6. In the circle above, chord AB is extended to meet the tangent DE at D. If AB = 7 cm and BD = 9 cm, find the length of DE. (+1, -0.33)



- a. 12 cm
- b. $\sqrt{63}$ cm
- c. 4 cm
- d. 10 cm

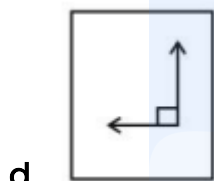
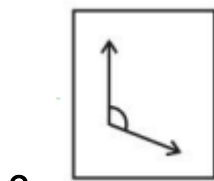
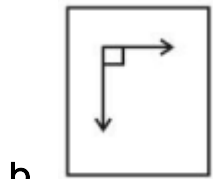
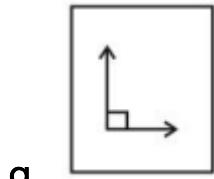
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7. Which award did Ghulam Mustafa Khan receive in 2018? (+1, -0.33)

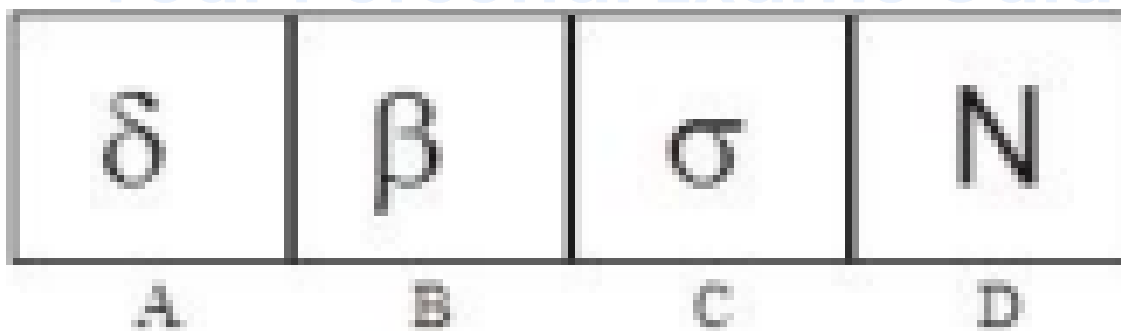
- a. Bharat Ratna
- b. Padma Bhushan
- c. Padma Vibhushan
- d. Padma Shri

8. Find the different option from the following: (+1, -0.33)



9. Identify the odd one:

(+1, -0.33)



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

d. C

10. What is the mass of 10 moles of CO_2 ? (+1, -0.33)

a. 220

b. 440

c. 280

d. 44

11. The value of universal gravitation constant 'G' was discovered by _____. (+1, -0.33)

a. Henry Cavendish

b. Antoine-Laurent Lavoisier

c. Isaac Newton

d. John Dalton

12. Identify the book written by Indian-American author Shyam Saran. (+1, -0.33)

a. The Binding Vine

b. How India Sees the World

c. Ladies Coupe

d. The Village by the Sea

13. Amar can cover $\frac{5}{8}$ th of the distance covered by Arpan in $\frac{7}{8}$ th of the time taken by the latter. If Arpan took 40 minutes to complete the journey, how many minutes would it take Amar to travel the same distance? (+1, -0.33)

- a. 45
- b. 50
- c. 56
- d. 60

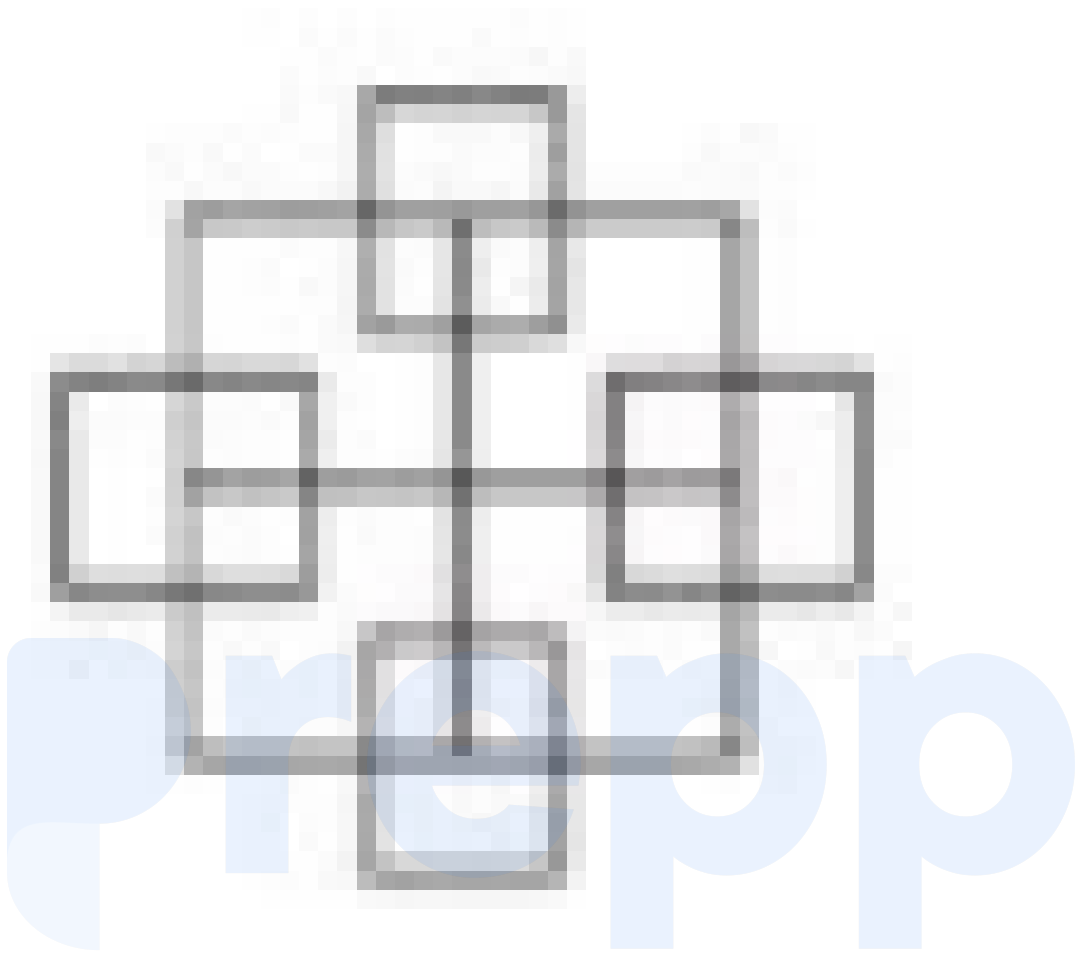
14. Find the fraction equivalent to $\frac{17}{24}$ whose numerator is 51? (+1, -0.33)

- a. $\frac{51}{48}$
- b. $\frac{51}{72}$
- c. $\frac{51}{32}$
- d. $\frac{51}{36}$

15. If one metal of an alloy is mercury, then that alloy will be called: (+1, -0.33)

- a. Brass
- b. Amalgam
- c. Solder
- d. Bronze

16. Find the number of squares in the following figure. (+1, -0.33)



- a. 21
- b. 19
- c. 17
- d. 15

17. If Y is the daughter of C and C is the wife of F. How is F related to Y? (+1, -0.33)

- a. Daughter
- b. Father
- c. Brother

d. Sister

18. The medieval period in India begins from the _____ century and ends in the _____ century. (+1, -0.33)

- a. sixth, eighteenth
 - b. ninth, seventeenth
 - c. eighth, eighteenth
 - d. seventh, sixteenth
-

19. _____ was formed on 21 January 1972. (+1, -0.33)

- a. Odisha
 - b. Meghalaya
 - c. Goa
 - d. Telangana
-

20. Who is the brand ambassador of the Indian Film Festival of Melbourne? (+1, -0.33)

- a. Katrina Kaif
 - b. Kareena Kapoor
 - c. Vidya Balan
 - d. Priyanka Chopra
-

21. In humans, the male gamete is a carrier of which of the following chromosomes? (+1, -0.33)

- a. Both X and Y chromosomes
- b. Only Y chromosome
- c. Only X chromosome
- d. Either X or Y

22. Combustion of coal and petroleum forms oxides of _____. (+1, -0.33)

- a. N₂ and S
- b. S and Ca
- c. N₂ and P
- d. S and P

23. If $\sqrt{0.25} \times 0.05\sqrt{a} = 0.5 \times 0.5 \times \sqrt{b}$, then the value of $\frac{a}{b}$ is? (+1, -0.33)

- a. 0.01
- b. 0.1
- c. 10
- d. 100

24. Study the given statement and two conclusions. (+1, -0.33)
Statement:

Sachin Tendulkar is a great cricketer. His straight drive is one of the most loved shots to watch.

Conclusions:

1. Sachin Tendulkar plays cricket well.
2. All players play the straight drive.

Which conclusion follows?

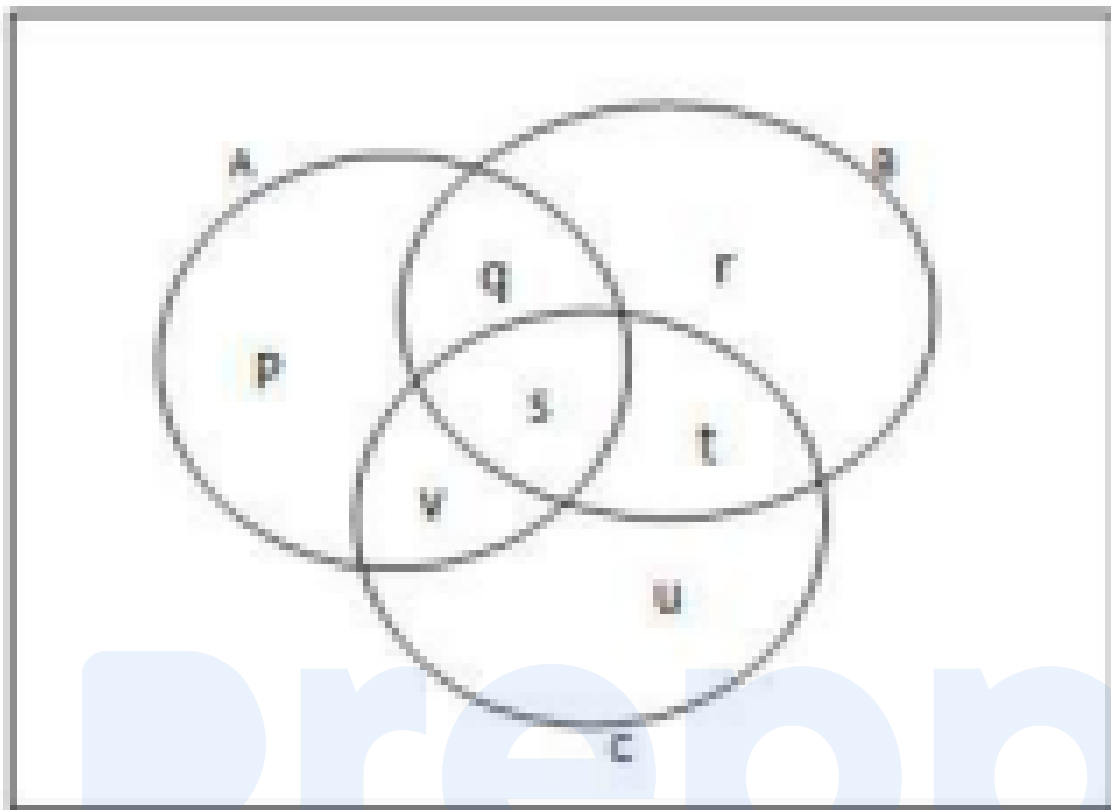
- a. Only 2 follows
- b. Both follow
- c. Neither 1 nor 2 follows
- d. Only 1 follows

25. Work done by gravity depends on: (+1, -0.33)

- a. the difference in the horizontal positions of the object.
- b. the difference in the vertical heights of the initial and final positions of the object.
- c. the difference in the kinetic energies of the initial and final positions of the object.
- d. the difference in change of the initial and final positions of the object.

26. Based on the given Venn diagram, answer the following question. (+1, -0.33)

- A – People who play the guitar
B – People who dance
C – People who sing



Which segment represents people who can sing and play the guitar but not dance?

- a. $t + s + u$
- b. s
- c. $v + p$
- d. $p + v + u$

27. What is the relation to Nandu of the mother of the mother of the only sister of Nandu's brother? (+1, -0.33)
- a. Maternal grandmother (Nani)

- b. Aunt (Chachi)
 - c. Sister
 - d. Mother
-

28. The area of a rectangle is 16.02 m^2 . If its length is 4.5 m , find its breadth (in m). (+1, -0.33)

- a. 3.58
 - b. 3.56
 - c. 3.62
 - d. 3.54
-

29. L _ m m _ n _ l _ m n n (+1, -0.33)
The missing letters of the above series are:

- a. m l m n
 - b. l n l m
 - c. l m l m
 - d. l n l n
-

30. Loo, during the summer season, originates in _____ and blows towards adjoining regions. (+1, -0.33)

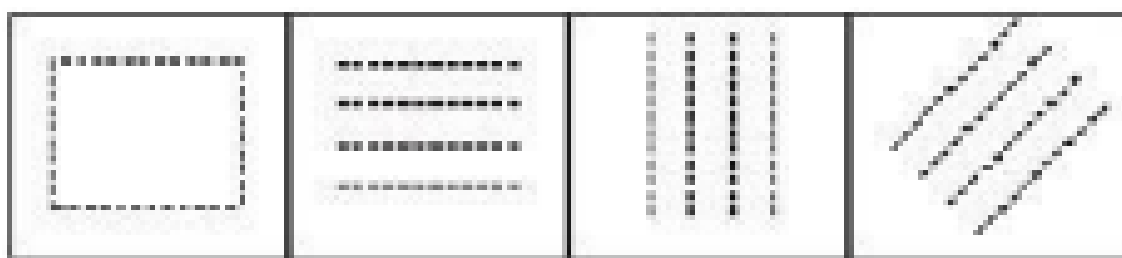
- a. Rajasthan
- b. Madhya Pradesh

c. Uttar Pradesh

d. Delhi

31. Find the dissimilar option from these:

(+1, -0.33)



A

B

C

D

a. D

b. B

c. C

d. A

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32. _____ is NOT a part of carpel.

(+1, -0.33)

a. Stigma

b. Stamen

c. Ovary

d. Style

33. Where would you locate the element with electronic configuration 2, 8, 3 in the Modern Periodic Table?

(+1, -0.33)

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

34. The ratio of two numbers is 7:15. Their HCF is 7. What is their (positive) difference? (+1, -0.33)

- a. 52
 - b. 56
 - c. 48
 - d. 54
-

35. In a clock, how many times do the hands coincide in a day? (+1, -0.33)

- a. 22
 - b. 24
 - c. 11
 - d. 12
-

36. Which of the following awards is presented for excellence in the field of literature? (+1, -0.33)

- a. Grammy Award

- b. Navlekhan Award
 - c. Pulitzer Prize
 - d. Arjuna Award
-

37. The length and breadth of a rectangle are in the ratio 3:5. If the length is increased by 2 units and the breadth is increased by 1 unit, the area changes by 41 square units. Find the original area of the rectangle. (+1, -0.33)

- a. 16 sq units
 - b. 17 sq units
 - c. 15 sq units
 - d. 9 sq units
-

38. In a class of 25 students, average age is 12 years. If three students of ages 11, 12 and 13 years leave, what will be the change in average age? (+1, -0.33)

- a. +2
 - b. -1
 - c. 0
 - d. +1
-

39. Who took oath as Chief Minister of Manipur on 15 March 2017? (+1, -0.33)

- a. Yumnam Joykumar Singh
- b. Nongthombam Biren Singh

- c. Thongam Biswajit Singh
- d. Thokchom Radheshyam Singh

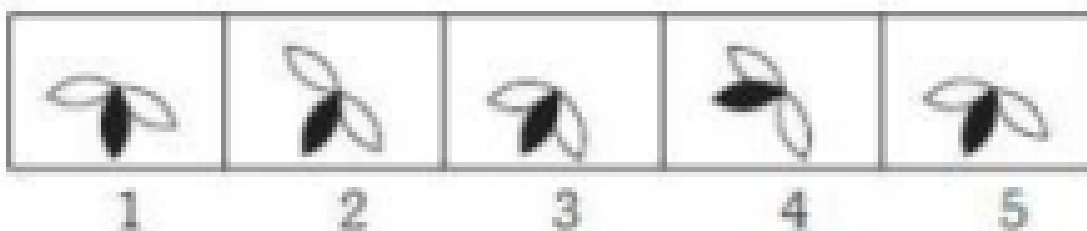
40. Jyoti bought 50 dozen eggs at ₹8.40/dozen. 20 eggs broke. She sold the remaining at 80 paise per egg. Find her profit or loss (in ₹). (+1, -0.33)

- a. ₹22 profit
- b. ₹44 loss
- c. ₹44 profit
- d. ₹22 loss

41. Select the figure from the options which is related to question figure c in the same way as question figure b is related to question figure a. (+1, -0.33)
Question figures:



Answer figures:



- a. 5

b. 2

c. 1

d. 4

42. By whom was the Union Budget 2017-18 presented? (+1, -0.33)

a. Narendra Modi

b. Manmohan Singh

c. Arun Jaitley

d. Amit Shah

43. A train can travel 25% faster than a car. Both start together from point X and the car reaches Y (100 km away) at the same time as the train. The car did not stop but the train had several stops and was delayed by 25 minutes. What is the speed of the train in km/h? (+1, -0.33)

a. 60 km/hr

b. 45 km/hr

c. 50 km/hr

d. 55 km/hr

44. What is the probability of drawing a spade from a pack of cards? (+1, -0.33)

a. $\frac{3}{13}$

b. $\frac{12}{13}$

c. $\frac{3}{26}$

d. $\frac{1}{4}$

45. The density of an iron nail is _____ the density of water. (+1, -0.33)

a. no relation exists between them

b. equal to

c. greater than

d. less than

46. The age of a grandson is one-fifth the age of his grandfather. Twenty years later, the ratio of their ages would be 23:35. What is the current age (in years) of the grandson? (+1, -0.33)

a. 3

b. 5

c. 8

d. 10

47. Sodium is stored in _____. (+1, -0.33)

a. cold water

b. hot water

c. water

d. kerosene

48. What is the SI unit of Power? (+1, -0.33)

- a. Joules
 - b. Watts
 - c. Coulombs
 - d. Amperes
-

49. What is the focal length of a spherical mirror whose radius of curvature is R? (+1, -0.33)

- a. R
 - b. $3R$
 - c. $R/2$
 - d. $2R$
-

50. How much work is done in moving a charge of $4C$ between two points having a potential difference of $11V$? (+1, -0.33)

- a. $48 J$
 - b. $11 J$
 - c. $3 J$
 - d. $44 J$
-

51. The maximum value of the HCF of given numbers is the _____ (+1, -0.33)

- a. sum of the given numbers
- b. smallest of the given numbers
- c. largest of the given numbers
- d. average of the given numbers

52. How many Fundamental Duties are mentioned in the Constitution of India? (+1, -0.33)

- a. 11
- b. 15
- c. 3
- d. 10

53. What is the energy contained in an object of mass 10 kg at a height of 7 m from the ground? Given $g = 9.8 \text{ ms}^{-2}$. (+1, -0.33)

- a. 528 J
- b. 588 J
- c. 520 J
- d. 686 J

54. Who won the Vijay Hazare Trophy of cricket for the record 5th consecutive time in 2017? (+1, -0.33)

- a. Hyderabad
- b. Tamil Nadu
- c. Kerala
- d. Goa

55. If a plant part moves away from light, it is called: (+1, -0.33)

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

56. P 3 R I M J 3 Q % W @ / N S E 5 X Y 1 # 8 (+1, -0.33)
In the above series 6th term to the right of 15th from left is:

- a. #
- b. 3
- c. P
- d. 8

57. Based on the given statements, which of the two conclusions can be drawn? (+1, -0.33)

Statements:

Some keyboards are pianos.

All pianos are casios.

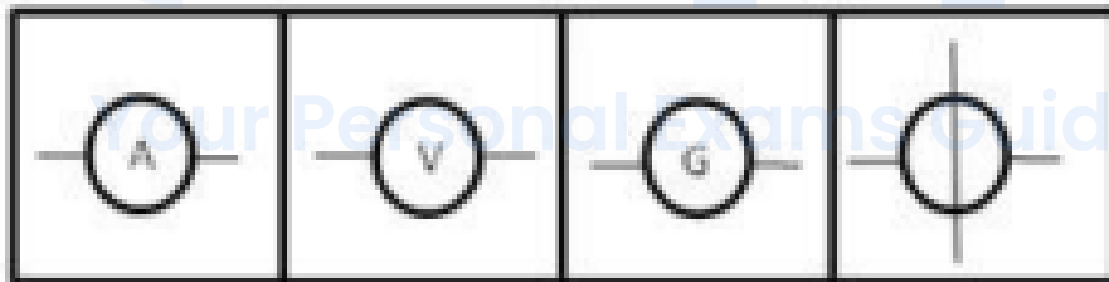
Conclusions:

1. All casios are pianos.

2. Some keyboards are casios.

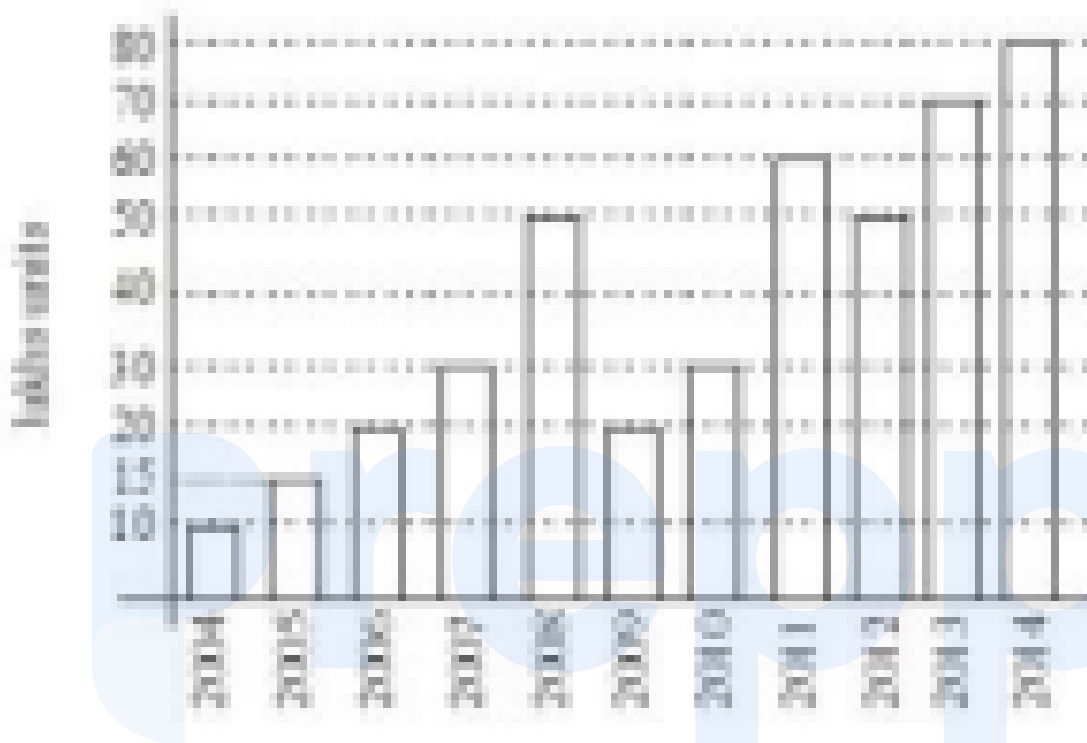
- a. Only (2) follows.
- b. Only (1) follows.
- c. Both (1) and (2) follow.
- d. Either (1) or (2) follows.

58. Find the different option from the following: (+1, -0.33)



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

59. The following graph gives information about personal computers (in lakh units) sold by company 'XYZ' in the last 10 years. (+1, -0.33)
How many computers (in lakh units) were sold by the company in 2014?



- a. 50
b. 80
c. 60
d. 72
60. For which sport is Shikha Tandon famous? (+1, -0.33)
a. Chess
b. Tennis

- c. Golf
 - d. Swimming
-

61. Identify the one which does not belong to this group. (+1, -0.33)

- A. Book
- B. Pen
- C. Paper
- D. Slipper

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

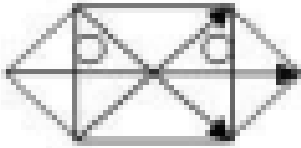
62. Which of the following statements about the speed of sound in different media at 25°C is/are true? (+1, -0.33)

- A. Speed of sound in steel is 5960 cm/s.
- B. Speed of sound in nickel is 6240 m/s.

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

63. Which of the following options shows the closest similarity to the question figure? (+1, -0.33)

प्रश्न आकृति:



विकल्प आकृतियां:

A	B	C	D

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

64. On dividing the largest 4-digit number by 40 and 52, remainder is 34 in each case. The number is: (+1, -0.33)

- a. 9814
- b. 9980
- c. 9914

d. 9846

65. Who is the Indian politician currently serving as President of the BJP and a member of the Rajya Sabha? (+1, -0.33)

- a. Lal Krishna Advani
- b. Jana Krishnamurthi
- c. Narendra Modi
- d. Amit Shah

66. The sum of the first 200 whole numbers is: (+1, -0.33)

- a. 19900
- b. 20100
- c. 20000
- d. 19800

67. Read the given statement and select the strong argument in relation to it. (+1, -0.33)

Statement:

Should the number of annual holidays in schools be reduced?

Arguments:

- 1. Yes, school children get more holidays than children of other countries.
- 2. Yes, it will improve the teacher's productivity and student's learning capacity.

- a. Only argument 2 is strong.
- b. Only argument 1 is strong.

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

68. Which of the following Union Ministers launched the 2.8 petaflop high-performance computer (HPC) system 'Mihir'? (+1, -0.33)

- a. Sushma Swaraj
 - b. Piyush Goyal
 - c. Dr. Harsh Vardhan
 - d. Prakash Javadekar
-

69. Two pipes P and Q together can fill a tank in 12 hours. If the first pipe can fill the tank 10 hours faster than the second, how long will the faster pipe take alone? (+1, -0.33)

- a. 52 hours
 - b. 20 hours
 - c. 25 hours
 - d. 12 hours
-

70. Select the mirror image of the given figure: (+1, -0.33)



A



B



C



D

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

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71. An object of mass 12 kg is at a fixed height. Its potential energy is 600 J. What is its height (in m) from ground level? Given $g = 10 \text{ ms}^{-2}$. (+1, -0.33)

- a. 5 m
- b. -5 m
- c. 5 ms^{-2}
- d. 5 ms^2

72. A graph showing the velocity of an object with time is called: (+1, -0.33)

- a. Velocity-motion graph
 - b. Velocity-time graph
 - c. Velocity-distance graph
 - d. Velocity-displacement graph
-

73. In which Indian state was the 80th Senior National Table Tennis Championship recently held? (+1, -0.33)

- a. West Bengal
 - b. Odisha
 - c. Telangana
 - d. Rajasthan
-

74. Mandira is Rajan's sister. What is the relationship of Mandira's son to Rajan? (+1, -0.33)

- a. Father
 - b. Uncle (Chacha/Mama)
 - c. Nephew
 - d. Son
-

75. Find the next number in the following series: (+1, -0.33)
3, 5, 9, 11, 15, 17, ?

- a. 25
- b. 21
- c. 20
- d. 19

76. Consider the statement and decide which assumption(s) is/are implicit. (+1, -0.33)

Statement:

Ranjit said to his friend Sandeep, "This surprise gift is very special to me."

Assumptions:

- I. The gift was given by his wife.
- II. Sandeep and Ranjit are friends.
- III. This gift was a surprise for Ranjit.

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

77. A solution contains 43 g of common salt in 320 g of water. Calculate the concentration in terms of mass by mass percentage of the solution. (+1, -0.33)

- a. 11.85 g
- b. 11.36%

c. 10.36%

d. 11.85%

78. X and Y can do a certain piece of work in 20 and 30 days respectively. X and Y worked together for 7 days and left. Then Z came and completed the remaining work alone in 10 days. In how many days will Z alone do this work? (+1, -0.33)

a. 22 days

b. 28 days

c. 26 days

d. 24 days

79. Human skin is made up of: (+1, -0.33)

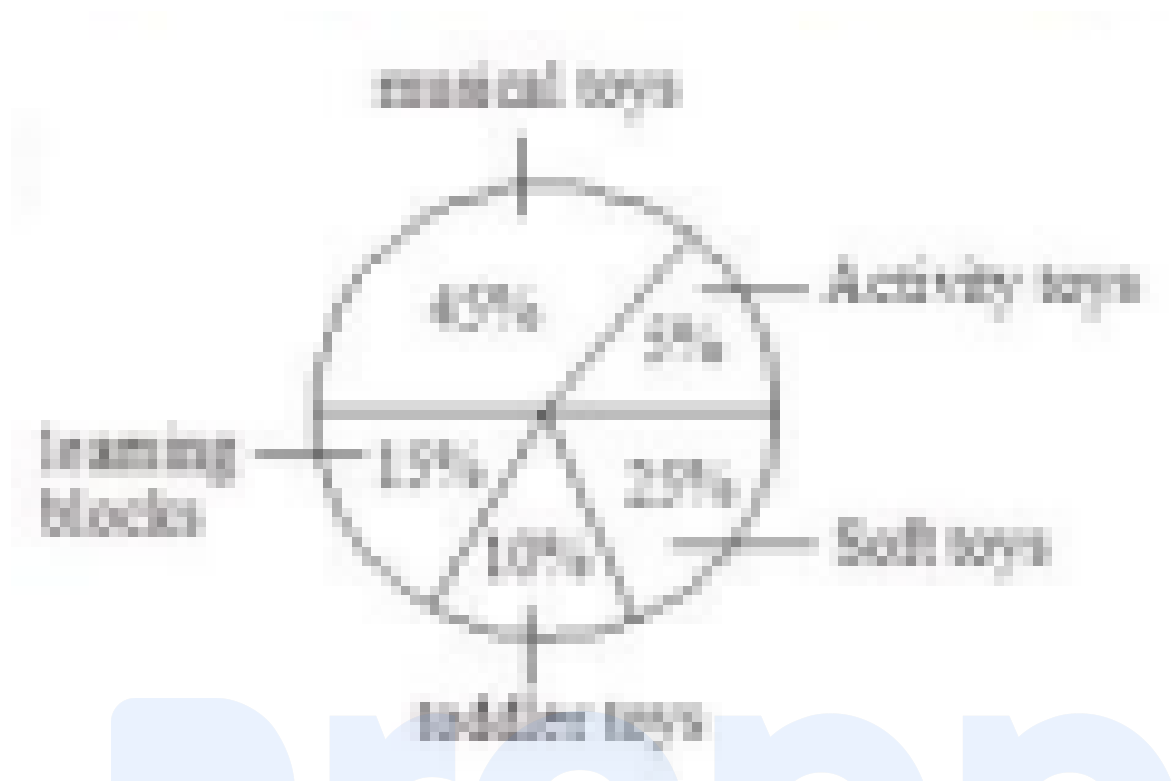
a. epidermal cells

b. connective tissue

c. permanent tissue

d. parenchyma

80. The following pie chart shows the sales of toys made by company "XYZ" during the year 2017-18. (+1, -0.33)



The total income from selling all types of toys is ₹38,72,000/-.
What is the income (in ₹) earned by "XYZ" from the sale of Musical Toys?

- a. 8,71,200
- b. 17,42,400
- c. 4,35,600
- d. 2,17,800

81. _____ does NOT exhibit periodicity in properties of elements. (+1, -0.33)

- a. N/P ratio
- b. Electron affinity
- c. Electron positivity

d. Atomic size

82. A particle with acceleration $(4/3) \text{ m/s}^2$ starts from rest. What distance does it cover in the third second? (+1, -0.33)

- a. $4/3 \text{ m}$
 - b. $10/3 \text{ m}$
 - c. 4 m
 - d. $4/9 \text{ m}$
-

83. What is the smallest possible unit of a compound called? (+1, -0.33)

- a. Atom
 - b. Molecule
 - c. Neutron
 - d. Nucleus
-

84. For a number to be divisible by 9 the sum of its digits must be divisible by -----.

- a. 1
 - b. 3
 - c. 6
 - d. 9
-

85. Which ONE of the following is correct for Rhizoid? (+1, -0.33)

- a. They are multicellular composed of multiple tissues.
- b. They have well-defined stem, root and leaves.
- c. They typically have a central disc and five arms.
- d. They get attached with substratum with the help of plants.

86. If a shopkeeper sells an item for ₹520, he earns a 30% profit. He wants to earn a 50% profit on this item. At what price should he sell it? (+1, -0.33)

- a. ₹550
- b. ₹600
- c. ₹624
- d. ₹866

87. Which of the following features is present on the new ₹100 note issued by the Reserve Bank of India (RBI)? (+1, -0.33)

- a. The denomination number 100 is not written in Devanagari
- b. Motif of "Rani ki Vav"
- c. There is no signature of the Governor of RBI
- d. The colour of the note is brown

88. Excise duty is associated with which department of the government? (+1, -0.33)

- a. Defense
- b. Revenue
- c. Health
- d. Agriculture

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

Cry : Sob :: Laugh : ?

- a. Chuckle
- b. Exclaim
- c. Bellow
- d. Whoop

90. Two years ago, a new startup company suffered a huge loss of 80% of its capital investment. In subsequent years, it recovered its financial loss in two stages. In stage 1, the company recovered ₹30,000 and in stage 2 ₹80,000. What was its initial capital investment? (+1, -0.33)

- a. ₹2,40,000
- b. ₹1,37,500
- c. ₹1,60,000
- d. ₹3,60,000

91. A clock is set right at 5 am. The clock loses 6 minutes every 24 hours. What will be the true time when the clock indicates 10 pm on the 4th day? (+1, -0.33)

- a. 11 am
- b. 10 pm
- c. 11 pm
- d. 9 pm

92. How many terms of the AP 1, 4, 7 ... will give a sum of 925? (+1, -0.33)

- a. 23
- b. 22
- c. 25
- d. 24

93. The Mughal emperor Jahangir was the son of _____. (+1, -0.33)

- a. Akbar
- b. Humayun
- c. Shah Jahan
- d. Babur

94. Read the given statement and conclusions carefully and select which of the conclusions logically follow(s) from the statement. (+1, -0.33)

Statement:

Speaking at the environment conference, the key speaker applauded the contribution made by the youth in innovating environment-friendly waste-management techniques.

Conclusions:

I. The key speaker was highlighting the achievements of youth innovating to save the environment.

II. All the conclusions from this conference would be implemented.

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

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

Statements:

I. Some stories are folktales.

II. Some stories are novels.

Conclusions:

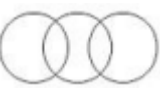
1. Some folktales are stories.

2. Some novels are folktales.

- a. Only conclusion 1 follows
 - b. Only conclusion 2 follows
 - c. Both 1 and 2 follow
 - d. Neither 1 nor 2 follows
-

96. Choose the best-suited Venn diagram for the following words:
Curtains, Shoes, Refrigerator

(+1, -0.33)

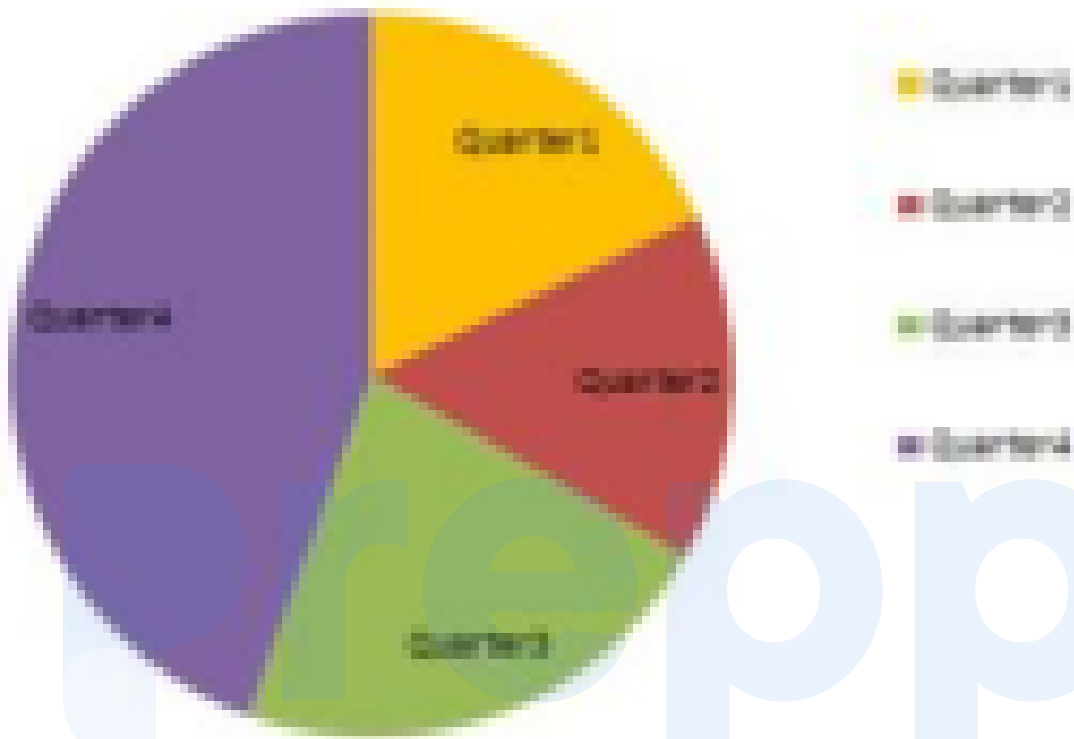
- a. 
- b. 
- c. 
- d. 

97. The chart below shows the quantity of oil produced by an oil-manufacturing company. In which quarter was their production maximum?

(+1, -0.33)

Your Personal Exams Guide

Production of oil in Kgs



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

98. ABCD is a cyclic quadrilateral on a circle with one diagonal AC. E is the tangent to the circle at point C. If angle ABC = 110° and angle ACD = 40° , find angle DCE.

(+1, -0.33)

- a. 70°

- b. 90°
 - c. 75°
 - d. 80°
-

99. Sarvan is waiting for Rashmi at a coffee shop at 3 p.m. On his wrist watch, if the hour hand points North-East, what direction does the minute hand point? (+1, -0.33)

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

100. According to the Global Firepower Index ranking 2017, India ranks fourth in the list of all countries by military strength. Which of the 4 countries listed below is NOT above India in the Global Firepower Index? (+1, -0.33)

- a. USA
- b. UK
- c. Russia
- d. China