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- RBI GRADE B
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RRB Group D 2022 Prev. Yr. Paper (23 Aug 2022) (Shift 2)

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 or more 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

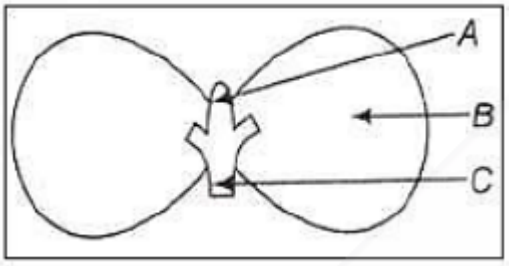
1. The answer will be saved automatically upon clicking on an option amongst the given choices of answer.
2. To deselect your chosen answer, click on the clear response button.
3. The marking scheme will be displayed for each question on the top right corner of the test window.

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Test

1. Study the diagram of a dicot seed given below. Select the correct option regarding the functions of the parts labelled A, B and C **(+1, -0.33)**



a. A - Stores food, B - Stores food, C - Future root

b. A - Future shoot, B - Future root, C - Stores food

c. A - Future root, B - Stores food, C - Future shoot

d. A - Future shoot, B - Stores food, C - Future root

---

2. If a and b are the roots of the equation $x^2 - 7x + 12 = 0$, then the value of $\dfrac{a^3+b^3}{a^2+b^2+1}$ is: **(+1, -0.33)**

a. 5.2

b. 2.6

c. 3.5

d. 4.4

---

3. Which tissue in the coconut husk makes it hard and stiff? **(+1, -0.33)**

a. Collenchyma

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b. Sclerenchyma

c. Parenchyma

d. Guard cells

---

4. A and B undertake to complete a piece of work for ₹600. A alone can complete it in 4 days while B alone can complete it in 6 days. With the help of C, they finish the work in 2 days. Find the share of C in the payment received. **(+1, -0.33)**

a. ₹200

b. ₹78

c. ₹100

d. ₹300

---

5. The Indian Constitution includes borrowed features from how many countries? **(+1, -0.33)**

a. 06

b. 07

c. 10

d. 13

---

6. Read the given statement and conclusions carefully. Assuming that the information given in the statements is true, decide which of the given conclusions logically follow(s) from the statement. **(+1, -0.33)**

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Statement:

In a recent survey on choice of drink, 65 percent of the people preferred tea, 28 percent preferred coffee, 5 percent preferred milk, while 2 percent were neutral.

Conclusions:

I. Tea is a better drink than coffee.

II. More people prefer to drink coffee as compared to milk.

a. Both conclusions I and II follow

b. Only conclusion II follows

c. Only conclusion I follows

d. Neither conclusion I nor II follows

---

7. Which of the following number will replace the question mark (?) and complete the given number series? **(+1, -0.33)**

3, 6, 8, 16, 18, 36, ?

a. 72

b. 38

c. 45

d. 42

---

8. Select the option that is related to the fifth number in the same way as the second number is related to the first number and the fourth number is related to the third number **(+1, -0.33)**

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20:42:: 25:52:: 18:?

a. 34

b. 38

c. 60

d. 54

---

9. The Easter basket is related to which of the following religions? **(+1, -0.33)**

a. Christianity

b. Islam

c. Sikhism

d. Hinduism

---

10. Which of the following reactants will come in place of A and give a neutralisation reaction? **(+1, -0.33)**

$Ca(OH)_2 + A \rightarrow CaCl_2 + H_2O$

a. Hydrochloric acid

b. Nitric acid

c. Sulphuric acid

d. Acetic acid

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11. Which of following is NOT a part of the Dravidian language family's four largest languages? **(+1, -0.33)**

a. Malayalam

b. Tamil

c. Sanskrit

d. Kannada

---

12. The total number of three-digit numbers divisible by 2 or 5 is **(+1, -0.33)**

a. 400

b. 540

c. 245

d. 270

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13. The sum of the ages of a mother, son and daughter is 70 years. If the mother is thrice as old as her son, and the daughter is 5 years older than her brother, how old is the mother? **(+1, -0.33)**

a. 42 years

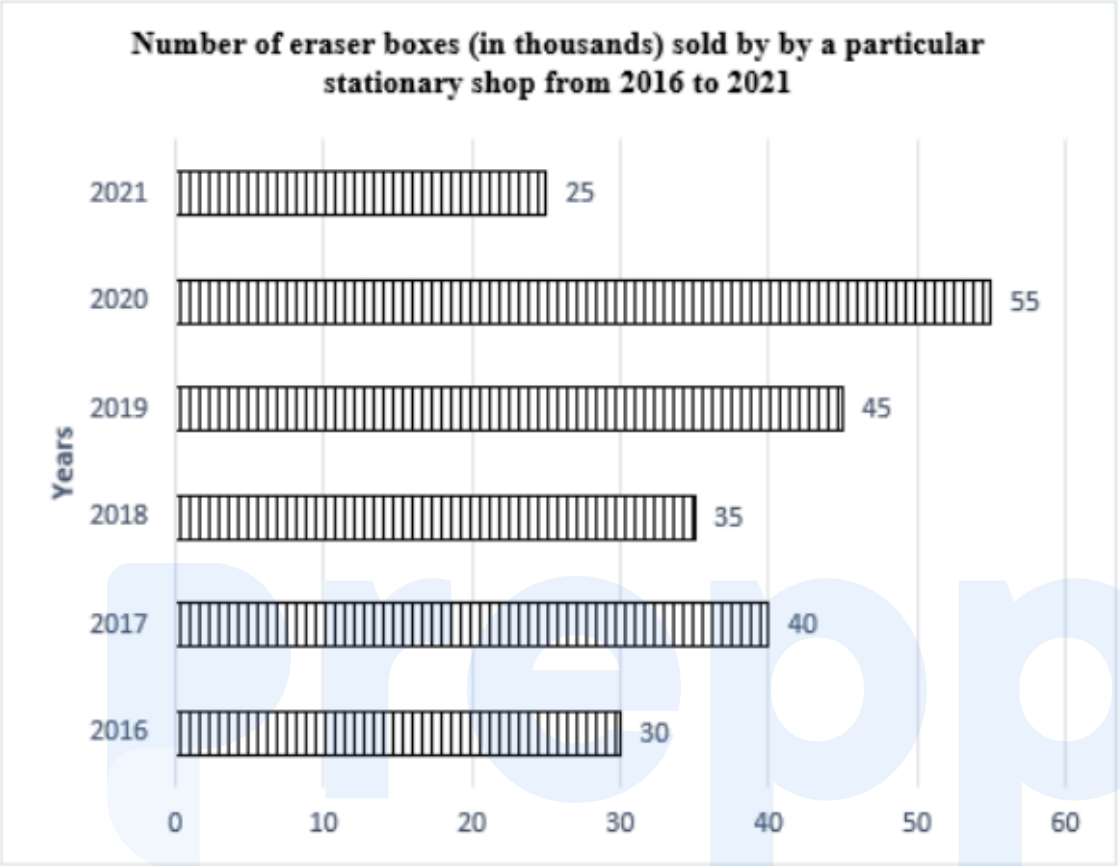
b. 35 years

c. 39 years

d. 45 years

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14. Study the following bar graph carefully and answer the question. (+1, -0.33)



"What is the approximate percentage increase in the number of the eraser boxes sold from 2018 to 2020?

a. 50%

b. 45%

c. 57%

d. 60%

---

15. _____ are used to make bidis. (+1, -0.33)

a. Tendu leaves

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b. Tamarind leaves

c. Oak leaves

d. Coconut leaves

---

16. In this question, a group of numbers/symbols is coded using letters as per the table given below and the conditions which follow. The correct combination of codes following the conditions is your answer. **(+1, -0.33)**

Number/Symbol	&	5	9	#	6	%	8
Codes	S	D	M	U	T	L	A

Conditions:

(i) If the first element is an even number and the last element is also an even number, the codes for these two (the first and the last elements) are to be interchanged.

(ii) If the second element is an even number and the fifth element is a symbol, the codes for these two (the second and the fifth elements) are to be interchanged.

(iii) If the fourth element is a symbol and the sixth element is also a symbol, both these elements (the fourth and the sixth elements) are to be coded as N.

Question: 85 &%9#69

a. MDSNMNTA

b. ADSNMNTM

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c. ADSLMUTM

d. AMSNDNTM

---

17. The normal systolic and diastolic pressure in humans is _____ respectively. **(+1, -0.33)**

a. 150 and 75 mm of Hg

b. 140 and 90 mm of Hg

c. 120 and 80 mm of Hg

d. 100 and 60 mm of Hg

---

18. The value of $42 + \sqrt{82} - 4\sqrt{25} - 10 =$ **(+1, -0.33)**

a. -32

b. -6

c. 12

d. -25

---

19. Which of the following statements is/are true for a current carrying straight conductor? **(+1, -0.33)**

(i) The magnetic field lines are concentric circles with conductor at the centre.

(ii) The strength of the magnetic field increases as we move away from the conductor.

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(iii) The direction of magnetic field can be determined using right hand thumb rule.

a. Only (i)

b. Only (ii)

c. Both (i) and (ii)

d. Both (i) and (iii)

---

20. Select the correct combination of mathematical signs that can sequentially replace Y to balance the following equation. **(+1, -0.33)**

32 Y 8 Y 16 Y 8 Y 8

a. x, =, +, +

b. +, x, =, x

c. x, +, =, -

d. +, x, =, -

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21. In December 2021, who launched India's Semiconductor Mission, which aims to manufacture a vibrant semiconductor and display ecosystem to enable India's emergence as a global hub for electronics manufacturing and design? **(+1, -0.33)**

a. Rajeev Chandrasekhar

b. Anand Deshpande

c. Ashwini Vaishnaw

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d. Rajendra Kumar

---

22. Which of the following is an example of a virus? **(+1, -0.33)**

a. AIDS

b. Anthrax

c. Elephantiasis

d. HIV

---

23. Bhupesh suffered crop failure for few years. When he got the soil examined, it was about 11.6. Which of the following compounds can he use to treat the soil of his agricultural field? **(+1, -0.33)**

a. $Ca(OH)_2$

b. NaCl

c. $Al_2(SO_4)_3$

d. $Zn(OH)_2$

---

24. In February 2022, who was appointed as Chairman of the Insolvency and Bankruptcy Board of India? **(+1, -0.33)**

a. Shashank Saksena

b. Anuradha Guru

c. Ravi Mittal

d. Krishnamurthy Subramanian

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25. Which of the following terms will replace the question mark (?) in the given series to make it logically complete? GRM-2, EPK-6, CNI-14, ALG-30,? **(+1, -0.33)**

a. YJE-62

b. YJF-64

c. XJE-60

d. YKE-62

26. Three bulbs A, B and C rated 40 W, 60 W and 100 W, respectively, are connected in parallel to a voltage source of 220 V. The bulb that glows with maximum brightness is: **(+1, -0.33)**

a. all bulbs will glow with equal brightness

b. bulb C

c. bulb A

d. bulb B

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27. In February 2022, Patanjali launched a co-branded contactless credit card with which bank? **(+1, -0.33)**

a. Axis Bank

b. State Bank of India

c. HDFC Bank

d. Punjab National Bank

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28. The splitting up of white light into seven components as it enters a glass prism is called: **(+1, -0.33)**

a. scattering of light

b. reflection of light

c. refraction of light

d. dispersion of light

---

29. B was standing at a point, facing north. B turned and ran towards the east for 50 m, then turned towards the south and walked for 30 m. He then turned left and ran for 40 m, then turned right and ran for 50 m, turned right again and walked for 10 m and at last, turned right and walked for 20 m. How much distance did B cover only by walk and in which direction is he facing now? **(+1, -0.33)**

(All turns are 90 degree turns only)

a. 150 m, North

b. 60 m, South

c. 60 m, North

d. 150 m, South

---

30. A statement is given, followed by four conclusions given in the options. Find out which conclusion is true based on the given statement. **(+1, -0.33)**
Statement:V>R>N=U=H>C

a. N>V

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b. R=H

c. U>G

d. N=H

---

31. Who bagged the women's singles title at Syed Modi International Badminton Tournament, 2022? **(+1, -0.33)**

a. Jwala Gutta

b. Ameeta Singh

c. Saina Nehwal

d. PV Sindhu

---

32. Find the roots of $\sqrt{(2x + 9)} + x = 13$. **(+1, -0.33)**

a. 8 and 6

b. 2 and 8

c. 20 and 8

d. 4 and 20

---

33. If the area of an equilateral triangle is $25\sqrt{3}$ cm², then the length of each side of the triangle is: **(+1, -0.33)**

a. 10 cm

b. 5 cm

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c. 12 cm

d. 8 cm

---

34. Refer to the given letter and symbol series and answer the question that follows. **(+1, -0.33)**

(Left) K € TX @ *DX¥ & J%ZY$&#S&S FØG^ (Right)

How many such symbols are there in the series each of which is immediately preceded by a letter and also immediately followed by a letter?

a. 2

b. 3

c. 4

d. 1

---

35. How many physical regions are there in India? **(+1, -0.33)**

a. 5

b. 6

c. 3

d. 8

---

36. In a certain code language, MONDAY is written as ZBEOPN and MARCH is written as IDSBN. How will APRIL be written in the same language? **(+1, -0.33)**

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a. MKSVB

b. MJSQB

c. ZKSWC

d. MJSWB

---

37. In October 2021, which portal was been launched by the Ministry of Social Justice and Empowerment to provide a platform for senior citizens in India seeking employment opportunities? **(+1, -0.33)**

a. SANCHAY

b. SAMADHAN

c. SACRED

d. SANNIDHI

---

38. In the year 2021, Neeraj Chopra won India's first ever gold medal in athletics at the _____ Olympics. **(+1, -0.33)**

a. Tokyo

b. Sydney

c. Beijing

d. London

---

39. Rani's sister's age is 4 years more than her age. If her sister's age is 28 years, then find Rani's age. **(+1, -0.33)**

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a. 26 years

b. 24 years

c. 32 years

d. 22 years

---

40. Select the option that is related to the fifth number in the same way as the second number is related to the first number and the fourth number is related to the third number. **(+1, -0.33)**

14:203:16:264::18:?

a. 347

b. 353

c. 423

d. 333

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41. In which direction does a freely suspended bar magnet point? **(+1, -0.33)**

a. Geographical South- Geographical West

b. Geographical South- Geographical East

c. Geographical North- Geographical South

d. Geographical North- Geographical West

---

42. A convex lens forms a real and inverted image twice the size of the object. The magnification produced by the lens is equal to: **(+1, -0.33)**

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a. 1/2

b. 2

c. -2

d. -1/2

---

43. Which of the following features is correct regarding the federal system of the Indian Constitution? **(+1, -0.33)**

a. Dual citizenship

b. Equal representation of all states in the upper house of parliament

c. Equal representation of all states in the lower house of parliament

d. Dual government

---

44. On 20 January 2022, which court of India in Neil Aurelio Nunes and Ors vs. Union of India and Ors, upheld the constitutional validity of 27 per cent reservation for the Other Backward Classes (OBCs) in the All India Quota (AIQ) for undergraduate and postgraduate medical and dental courses? **(+1, -0.33)**

a. Bombay High Court

b. Madras High Court

c. Karnataka High Court

d. Supreme Court

---

45. With which of the following has the Government of India signed a 115 million dollar Rejuvenating Watersheds for Agricultural Resilience through **(+1, -0.33)**

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Innovative Development (REWARD) Programme?

a. World Bank

b. Reserve Bank of India

c. UNDP

d. World Health Organization

---

46. Which of the following numbers is divisible by both, 7 and 11? **(+1, -0.33)**

a. 1771

b. 3014

c. 2684

d. 2534

---

47. Six students, F, E, D, C, B and A, were studying around a square table in a college library, facing the centre. Four of them were sitting at the corners while two others were sitting at the exact centre of the sides. C and E were diagonally opposite to each other. A was not at any of the corner positions and was an immediate neighbour of both E and D. D was diagonally opposite to F. B was at the immediate right of F. No student sat between C and D as well as between E and F. Which student sat third to the left of B? **(+1, -0.33)**

a. D

b. C

c. A

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d. E

---

48. Which one of the following river marks the eastern-most boundary of the Himalayas? **(+1, -0.33)**

a. Ganga

b. Godavari

c. Brahmaputra

d. Chambal

---

49. The value of √729 + √1681 + √576 - √1849 is: **(+1, -0.33)**

a. 55

b. 64

c. 49

d. 37

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50. Given that 48: x :: x: 75, we can write this proportion as a fraction: 48/x = x/75 Cross-multiplying, we get: 48 * 75 = x * x 3600 = x^2 x = √3600 x = 60 Since x > 0, x = 60 **(+1, -0.33)**

a. 57

b. 60

c. 51

d. 63

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51. The magnification produced by a lens is 1/2. The nature and the relative size of the image formed by the lens in the respective order is: **(+1, -0.33)**

a. real, inverted and enlarged

b. real, inverted and diminished

c. virtual, erect and enlarged

d. virtual, erect and diminished

---

52. In February 2022, where was India's first Biosafety Level-3 Mobile Laboratory inaugurated? **(+1, -0.33)**

a. Rajasthan

b. Maharashtra

c. Gujarat

d. Jharkhand

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53. If each of the letters in the word 'ANOTHER' is arranged in alphabetical order, then how many letters will be there in the English alphabetical series between the letter that is fourth from the left end and the one that is second from the right end? **(+1, -0.33)**

a. 5

b. 2

c. 4

d. 3

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54. Five persons, K, L, M, N and P, receive their salaries on five different dates of the same month, viz. 1st, 2nd, 3rd, 4th and 5th. L receives salary on the date immediately after M. N receives salary on the date immediately before K. P receives salary on the date immediately after K. P receives salary on the 3rd of the month. On which date does M receive salary? **(+1, -0.33)**

a. 4th

b. 2nd

c. 1st

d. 5th

55. If the surface area of a sphere is 36π cm², then the radius of the sphere is: **(+1, -0.33)**

a. 3 cm

b. 5 cm

c. 2 cm

d. 4 cm

56. What day of the week was 10 January 2006? **(+1, -0.33)**

a. Thursday

b. Tuesday

c. Monday

d. Wednesday

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57. If the perimeter of a circle is 88 cm, then find the perimeter (in cm) of the square the length of each of whose sides is equal to the radius of the given circle. [Use π = 22/7] **(+1, -0.33)**

a. 7

b. 9

c. 6

d. 8

---

58. Seven boxes, P, Q, R, S, T, U and V, are kept one over the other but not necessarily in the same order. Only three boxes are kept below R. S is immediately below Q. V is immediately below T. P is immediately above Q. S is third box from top. T is not immediately below R. Which is the third box from the bottom? **(+1, -0.33)**

a. R

b. U

c. T

d. S

---

59. The value of √29.25 is: **(+1, -0.33)**

a. 5.6

b. 5.4

c. 5.2

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d. 5.5

---

60. If the simple interest on a certain sum for 18 months at 5.5% per annum exceeds the simple interest on the same sum for 14 months at 6% per annum by ₹62.50, then the sum is: **(+1, -0.33)**

a. ₹7,000

b. ₹5,000

c. ₹26,500

d. ₹8,200

---

61. Write a balanced chemical equation with state symbols for the following reaction. Potassium hydroxide solution (in water) reacts with nitric acid solution (in water) to produce sodium nitrate solution and water. **(+1, -0.33)**

a. $2\ KOH + 2\ HNO3 \rightarrow 2\ KNO3 + 2\ H2O$

b. $2\ KOH\ (aq) + 2\ HNO3(aq) \rightarrow 2\ KNO3\ (aq) + 2\ H2O\ (l)$

c. $2\ KOH\ (l) + 2\ HNO3\ (l) \rightarrow 2\ KNO3\ (l) + 2\ H2O\ (l)$

d. $2\ KOH\ (aq) + 2\ HNO3\ (l) \rightarrow 2\ KNO3\ (aq) + 2\ H2O\ (aq)$

---

62. A trader marked the price of an article at 1(1/5) times of its cost price and he sold it at 17/20 of the marked price. What is his gain percentage on that article? **(+1, -0.33)**

a. 17%

b. 23%

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c. 20%

d. 19%

---

63. Which of the following organisms has a longer small intestine? (+1, -0.33)

a. Tiger

b. Cow

c. Lion

d. Human

---

64. A dishonest dealer professes to sell his goods at the cost price but uses a false weight and thus gains 25%. How much quantity of grains does he give for a kilogram? (+1, -0.33)

a. 900 grams

b. 750 grams

c. 975 grams

d. 800 grams

---

65. Which of the following is the common product produced during aerobic and anaerobic respiration initially in the first step? (+1, -0.33)

a. Water

b. Pyruvate

c. Lactic acid

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d. Ethanol

---

66. The leaves of the _____ plant contain methanoic acid. (+1, -0.33)

a. nettle

b. orange

c. tomato

d. tamarind

---

67. If $a^4 + \frac{1}{a^4} = 34$, then the value of $a^6 + \frac{1}{a^6}$ is: (+1, -0.33)

a. 185

b. 243

c. 198

d. 216

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68. Who was the Chairman of Union Carbide during The Bhopal Gas Tragedy in Bhopal? (+1, -0.33)

a. John Ervin

b. J R Shah

c. Warren Anderson

d. Michal Bellay

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69. The first Municipal Corporation was set up during the British era in the former Presidency Town of _____ in 1688. **(+1, -0.33)**

a. Calcutta

b. Madras

c. Bombay

d. Nagpur

---

70. HNO_3 (aq) + KOH (aq) → KNO_3 (aq) + H_2O (l) The above reaction is an example of: **(+1, -0.33)**

a. redox reaction

b. decomposition reaction

c. combination reaction

d. neutralisation reaction

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71. Which of the following statements is/are true for a number of resistors connected in parallel combination? **(+1, -0.33)**

(i) All the resistors are connected between two given points.

(ii) The equivalent resistance of the circuit is more than the individual resistance.

(iii) The potential difference across each resistor is same.

a. Both (i) and (iii)

b. Only (i)

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c. Only (iii)

d. Both (i) and (ii)

---

72. Consider the below statements and identify the correct answer. **(+1, -0.33)**

Statement I: Law of Octaves was applicable only up to calcium.

Statement II: After calcium, every eighth element did not possess properties similar to that of the first.

a. Both Statements are correct. Statement I is correct explanation of Statement II.

b. Only Statement I is correct.

c. Both statements are correct. Statement II is correct explanation of Statement I.

d. Only Statement II is correct.

---

73. If the average of 5 consecutive even numbers is 10, then find the number at the centre when these five numbers are arranged in ascending order. **(+1, -0.33)**

a. 10

b. 20

c. 12

d. 14

---

74. Eight friends, P, Q, R, S, T, U, V and W, are sitting around a square table facing the centre of the table. Four of them are sitting at the corners while **(+1, -0.33)**

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the other four are sitting at the exact centre of the sides of the table. T is sitting at one of the corners. U is third to the right of T. S is to the immediate left of V. T is second to the right of V. Only U is between R and P. Only W is between T and R. Who is sitting to the immediate left of T?

a. R

b. W

c. P

d. Q

---

75. Find the curved surface area of a cylinder whose diameter of base is 14 m and height is 24 m. [Use π = 22/7] **(+1, -0.33)**

a. 1506 cm^2

b. 1056 cm^2

c. 1560 cm^2

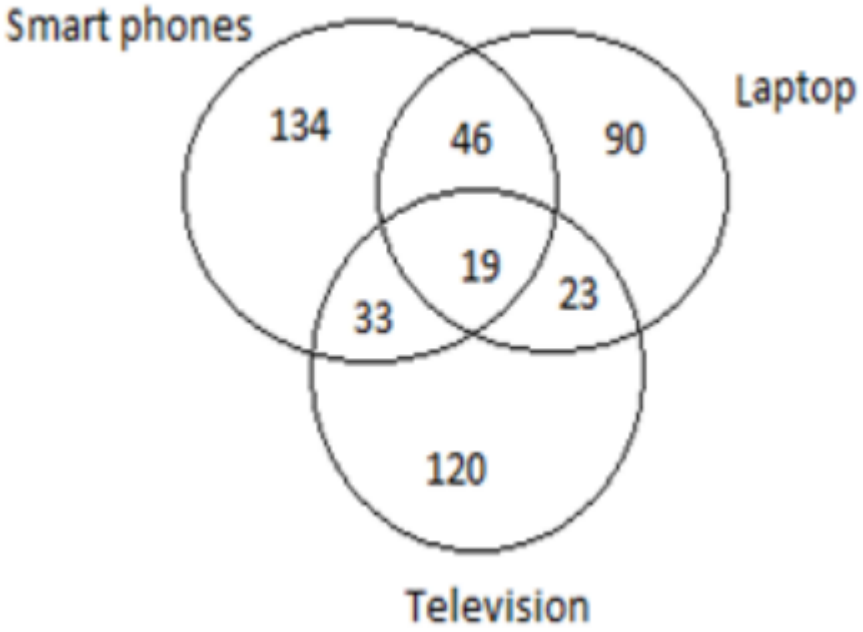
d. 1065 cm^2

---

76. Study the given diagram carefully and answer the following question. The numbers in different sections indicate the number of persons who use the electronic item. **(+1, -0.33)**

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a. 19

b. 23

c. 42

d. 56

---

77. A person has to cover a distance of 8 km in 1 hour. If he covers one-fourth of the distance in one-third of the total time, then what should his speed (in km/h) be to cover the remaining distance in the remaining time so that the person reaches the destination exactly on time? **(+1, -0.33)**

a. 1.6

b. 2.8

c. 3.7

d. 9

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78. Consider the below statements and identify the correct answer. **(+1, -0.33)**

Statement I: Carbon has the unique ability to form bonds with other atoms of carbon, giving rise to large molecules.

Statement II: This property is called catenation.

a. Both the statements are incorrect.

b. Statement I is correct, and Statement II is incorrect.

c. Both the statements are correct.

d. Statement II is correct, and Statement I is incorrect.

---

79. Identify the INCORRECT relation between power (P), Current (I), Resistance (R) and potential difference (V). **(+1, -0.33)**

a. $P = I^2R$

b. $P = V^2/R$

c. $P = VI$

d. $P = IR^2$

---

80. What is the distance between the pole and focus of a spherical mirror? **(+1, -0.33)**

a. R

b. 2R

c. R/2

d. R/4

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81. Where is the National War Memorial located? **(+1, -0.33)**

a. Agra

b. Delhi

c. Kolkata

d. Mumbai

82. Which of the following numbers will replace the question mark (?) in the given series? **(+1, -0.33)**

7, 56, 28, 224, 112,?

a. 896

b. 920

c. 846

d. 900

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83. What will come in place of the question mark (?) in the following equation, if '+' is interchanged with 'x', and '+' is interchanged with '-'? **(+1, -0.33)**

6+16×4+8-8+2×7=?

a. -1

b. 1

c. 23

d. 0

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84. Which of the following options is the closest approximate value which will come in place of question mark (?) in the following equation? **(+1, -0.33)**

11.998 + 2.008 × 3.991 + 14.9929 - 10.002 = ?

a. 29

b. 34

c. 24

d. 21

---

85. If two parallel lines are intersected by a transversal, then which of the options below is necessarily true? **(+1, -0.33)**

a. The sum of the measures of a pair of alternate interior angles is 180°

b. The sum of the measures of a pair of corresponding angles is 180°

c. The sum of the measures of a pair of interior angles on the same side of the transversal is 180°

d. The sum of the measures of a pair of vertically opposite angles is 180°

---

86. Sheela was standing facing the morning sun. She started walking towards the morning sun and turned to her right side, where she walked for few minutes and then turned left and walked for 3 m and stopped. In which direction is Sheela facing right now? **(+1, -0.33)**

a. East

b. North

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c. West

d. South

---

87. Three statements are given, followed by three conclusions numbered I, II and III. Assuming the statements to be true, even if they seem to be at variance with commonly known facts, decide which of the conclusions logically follow(s) from the statements. **(+1, -0.33)**

Statements:

1. Some hills are plateaus.

2. Some plateaus are deserts.

3. All deserts are plains

Conclusions:

I. Some plains are plateaus.

II. Some plains are hills.

III. All deserts are hills.

a. Only conclusion I follows

b. Only conclusions II and III follow

c. Only conclusions I and II follow

d. Only conclusion II follows

---

88. This question is based on the five, three-digit numbers given below: **(+1, -0.33)**

815 458 512 630 235

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What will be the resultant if third digit of the second largest number is added to the second digit of smallest number?

a. 3

b. 6

c. 5

d. 2

---

89. KIT 20 is related to PRG 50 in a certain way. In the same way, ENT 16 is related to VMG 40. To which of the following is MFG 18 related following the same logic? **(+1, -0.33)**

a. QUT 45

b. NVT 45

c. NUT 45

d. NUT 40

---

90. What is the ranking of India in wind power as on March 2021? **(+1, -0.33)**

a. 4th

b. 10th

c. 8th

d. 7th

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91. Study the following line graph carefully and answer the given question. Find the difference between the number of computers sold for the year 2017 and 2021. **(+1, -0.33)**

a. 10000

b. 20000

c. 15000

d. 25000

---

92. Three statements are followed by four conclusions numbered I, II, III and IV. You have to consider these statements to be true, even if they seem at variance from commonly known facts. Decide which of the given conclusions logically follow/s from the given statement. **(+1, -0.33)**

Statements:

1. No paint is fresco.

2. No fresco is lacquer.

3. Some paints are lacquers. Conclusions:

I. No lacquer is paint.

II. No lacquer is fresco.

III. Some frescos are paints.

IV. All lacquers are paints.

a. Only conclusion II follows.

b. Only conclusions I and II follow

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c. Only conclusion IV follows.

d. Only conclusions I and IV follow

---

93. If the area of an equilateral triangle is $25\sqrt{3}$ cm², then the length of each side of the triangle is: **(+1, -0.33)**

a. 10 cm

b. 5 cm

c. 12 cm

d. 8 cm

---

94. The Aitareya Upanishad belongs to fourth, fifth and sixth chapters of the second book of Aitareya Aranyaka of the and considered as the oldest Upanishads. **(+1, -0.33)**

a. Rig Veda

b. Atharva Veda

c. Yajur Veda

d. Sama Veda

---

95. Which of the following is a naturally occurring source of air pollution? **(+1, -0.33)**

a. Burning firewood

b. Volcanic eruptions

c. Automobile exhausts

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d. Power plants

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96. If tan θ = 4, then the value of (4cosθ + 2sinθ) / (2sinθ - cosθ) is: **(+1, -0.33)**

a. 12/7

b. 12/5

c. 8/5

d. 12/10

---

97. 7 friends decided not to eat sweets on one day of their choice in the same week starting on Sunday and ending on Saturday. No one selected the same day of the week. P selected Saturday. Q selected Wednesday. R said that he will select the day immediately before P. S decided to select any available day between P's and Q's selection. T selected Sunday. U said that he will select the day immediately before Q. Which day is left for V to select? **(+1, -0.33)**

a. Thursday

b. Tuesday

c. Wednesday

d. Monday

---

98. If the mean of 22, 25, 27, 24 and x is 26, then the value of x is: **(+1, -0.33)**

a. 32

b. 35

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c. 28

d. 41

---

99. P, Q and R jointly start a business. It was agreed that P would invest ₹25,000 for 6 months, Q ₹44,000 for 5 months and R ₹50,000 for 3 months. Out of total profit of ₹1,04,000, the amount received by P will be: **(+1, -0.33)**

a. ₹30,000

b. ₹40,920

c. ₹27,900

d. ₹33,780

---

100. At present, _____ elements are known, of which _____ are naturally occurring elements. **(+1, -0.33)**

a. 114, 92

b. 114, 94

c. 118, 94

d. 118, 92

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