Prepp

Your Personal Exams Guide

Prepp.in

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	UPTET
IBPS RRB	IBPS CLERK	IES	UPSC CAPF
SSC Stenogr..	RRB NTPC	SSC GD	RBI GRADE B
RBI Assistant	DSSSB		

RRB Group D 2022 Prev. Yr. Paper (23 Aug 2022) (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 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.

Test

1. The value of 12 ÷ 3 × (7 + 8 − 3) is: (+1, −0.33)

   a. 48

   b. 24

   c. 6

   d. 1/13

2. In this question, a statement is followed by two conclusions. Which of the   (+1, −0.33)
   two conclusions is/are true with respect to the statement?

   Statement:
   N > M < K = L ≥ I > J

   Conclusions:
   I. L > J
   II. N > L

   a. Neither conclusion I nor II is true

   b. Only conclusion II is true

   c. Only conclusion I is true

   d. Both conclusions I and II are true

3. Who has launched the first Indian Virtual Science Lab for children under   (+1, −0.33)
   the CSIR Jigyasa programme?

   a. Dharmendra Pradhan

b. Dr. Jitendra Singh

c. Amit Shah

d. Dr. Virendra Kumar

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4. Find the area of a rhombus whose diagonals are 12 cm and 15 cm long. **(+1, -0.33)**

   a. 45 cm²

   b. 60 cm²

   c. 90 cm²

   d. 80 cm²

---

5. Starting from point L, a person walks 125 m towards the south. He then **(+1, -0.33)** takes a left turn and walks 70 m. From there, he takes a left turn and walks 80 m. After that, he takes a left turn and walks 115 m. Finally, he takes a right turn and walks 45 m to reach point M. How far and in which direction is point M from point L? (All turns are 90 degree turns only)

   a. 45 m, East

   b. 90 m, East

   c. 45 m, West

   d. 90 m, North

---

6. In chlor-alkali process, chlor represents chlorine gas and alkali represents: **(+1, -0.33)**

   a. NaOH

b. $CaCO_3$

c. $Ca(OH)_2$

d. ZnO

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7. Each vowel in the word 'DESTROY' is changed to the letter following it in the   **(+1, -0.33)**
English alphabetical order and each consonant is changed to the letter
preceding it in the English alphabetical order. If each letter, thus formed, is
arranged in alphabetical order, which letter will be fifth from the right end?

   a. P

   b. F

   c. Q

   d. R

---

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

Statement I: Among chemical properties, Mendeleev concentrated on the
compounds formed by elements with carbon and hydrogen.

Statement II: He selected these elements as they are less reactive and
formed compounds with few elements.

   a. Statement II is correct, Statement I is incorrect.

   b. Both statements are incorrect.

   c. Both statements are correct.

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

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9. The Twenty Point Programme (TPP) was launched by the Government of India in (+1, -0.33)

   a. 1980

   b. 1975

   c. 1985

   d. 1990

10. Which physiographic division covers a distance of 2500 km from Indus to Brahmaputra in west-east direction? (+1, -0.33)

    a. Coastal plains

    b. Northern plains

    c. Himalayan mountains

    d. Peninsular plateau

11. Which of the following group of hydrocarbons follows the general formula of C_nH_{2n}? (+1, -0.33)

    a. Alkyne

    b. Alkyl

    c. Alkane

    d. Alkene

12. Study the given letter, number, symbol series and answer the question that follows: (+1, -0.33)

7 T % N 9 * M S 3 U = L 8 Y @ G & 3 E > 5 & R 3 ! K # 7 % H = Y 6

Find out the total number of letters that are immediately followed by a number and immediately preceded by a symbol.

a. 4

b. 6

c. 5

d. 2

13. Each of the digits in the number 813924765 is arranged in ascending order from left to right. The position of how many digits will remain unchanged as compared to that in the original number?   (+1, -0.33)

a. None

b. One

c. Two

d. Three

14. A sum of money is to be distributed among four members A, B, C, and D in the ratio 4: 7: 9: 3. If C gets 720 more than D. find D's share.   (+1, -0.33)

a. ₹240

b. ₹160

c. ₹360

d. ₹480

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15. The cost incurred by Mahesh to produce an item in the factory was ₹2,000. He had to spend 10% of the production cost incurred on the item in the factory to transport it to the showroom. He sold the item from the showroom at a price that was 15% above the total cost incurred by Mahesh in the production and transportation of the item. What was the price at which Mahesh sold the item from the showroom? **(+1, -0.33)**

   a. ₹2,300

   b. ₹2,530

   c. ₹2,500

   d. ₹2,250

---

16. A dealer allows 30% discount on the marked price of an item and still makes a profit of 10%. By how much percentage is the marked price more than the cost price (rounded off to two places of decimal)? **(+1, -0.33)**

   a. 57.14%

   b. 26.67%

   c. 33.33%

   d. 45.45%

---

17. Which of the following Acts was passed by the British Parliament, defining the powers and responsibilities of the various organs of the East India **(+1, -0.33)**

Company?

   a. Indian Councils Act of 1892

   b. Regulating Act of 1773

   c. Government of India Act of 1858

   d. Pitt's India Act of 1784

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18. Fiscal policy is the policy of: **(+1, -0.33)**

   a. the Government

   b. RBI

   c. NABARD

   d. Both the Government and RBI

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19. The product of the roots of the quadratic equation $6 - 5x^2 - 8x = 0$ is: **(+1, -0.33)**

   a. $-8/5$

   b. $8/5$

   c. $6/5$

   d. $-6/5$

---

20. Workers who own and operate an enterprise to earn their livelihood are known as: **(+1, -0.33)**

   a. hired workers

   b. regular salaried employed workers

   c. government employed workers

   d. self-employed workers

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21. The HCF of 45, 78 and 117 is: **(+1, –0.33)**

   a. 9

   b. 5

   c. 7

   d. 3

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22. N.K. Singh became the Chairman of which Finance Commission of India?   **(+1, –0.33)**

   a. 19th

   b. 17th

   c. 13th

   d. 15th

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23. Lemons placed inside a beaker filled with water appear relatively larger in   **(+1, –0.33)**
    size due to:

   a. scattering of light

   b. refraction of light

   c. reflection of light

d. dispersion of light

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24. At which position on principal axis does a concave mirror forms a highly diminished, real and inverted image of an object? **(+1, -0.33)**

   a. 2F

   b. beyond 2F

   c. between F and 2F

   d. F

---

25. In a class of 21 students, each scored differently. P's rank from the bottom is 9th, while Q's rank from the top is also 9th. How many students are ranked between Q and P? **(+1, -0.33)**

   a. 4

   b. 2

   c. 5

   d. 3

---

26. If A bought an item for ₹384 and sold it for ₹576 and B bought another item for ₹1,254 and sold it for ₹1,672. What is the ratio of gain % of A to gain % of B? **(+1, -0.33)**

   a. 5/2

   b. 5/3

   c. 3/2

d. 2/3

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27. 'Nishagandhi Dance Festival' is celebrated in which of the following states? **(+1, -0.33)**

   a. Kerala

   b. Karnataka

   c. Tamilnadu

   d. Uttar Pradesh

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28. Which two signs should be interchanged to make the given equation correct? **(+1, -0.33)**

   24 × 6 – 12 + 18 ÷ 3 = 46

   a. × and –

   b. + and –

   c. + and +

   d. × and +

---

29. Which Article of the Indian Constitution states that 'The Council of Ministers shall be collectively responsible to the House of the People'? **(+1, -0.33)**

   a. Article 80 (4)

   b. Article 75 (2)

   c. Article 75 (1)

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d. Article 75 (3)

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30. The Missionaries of Charity is a Catholic religious congregation established in _ _ _ _ _ _ by Mother Teresa.   (+1, -0.33)

a. 1954

b. 1950

c. 1947

d. 1952

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31. A wire of a given material has length 'l' and resistance 'R'. Another wire of the same material having nine times the length and the same area of cross section will have a resistance equal to: (+1, -0.33)

a. 1/3R

b. 1/9R

c. 9R

d. 3R

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32. The sum of three consecutive multiples of 9 is 2457, find the largest one.   (+1, -0.33)

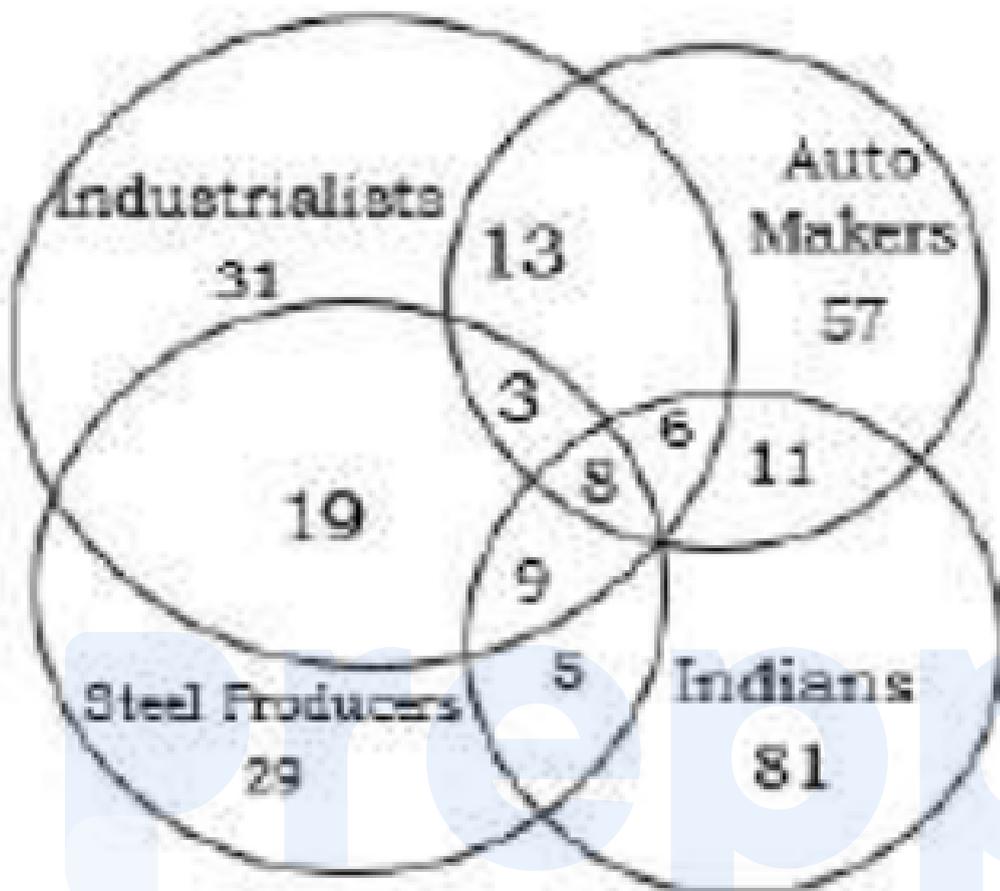**a.** 828

b. 990

c. 819

d. 999

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33. 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)**

125.99 − 35.92 + 3.89 x 16.11 = ?

   a. 158

   b. 166

   c. 154

   d. 150

34. Study the diagram and answer the question that follows. The numbers in different sections indicate the number of persons. **(+1, -0.33)**

How many Indian industrialists make autos but are NOT steel producers?

a. 6

b. 3

c. 8

d. 13

---

35. The Largest brackish water Lake of India is present in which state?   (+1, -0.33)

a. Assam

b. Odisha

c. Gujarat

d. Maharashtra

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36. P, Q, R and S are four points on the surface of a concave mirror as shown   **(+1, -0.33)**
    in the figure. If r1, r2, r3 and r4 are the distance of centre of curvature from
    points P, Q, R and S, respectively, then the correct relation between r1, r2,
    r3 and r4 is:

a. r1 = r2, r3 = r4, r2 ≠ r3

b. r1 = r2 = r3 = r4

c. r1 > r2 > r3 > r4

d. r1 < r2 < r3 < r4

37. An object placed 30 cm from a concave lens forms a virtual erect image at a distance of 10 cm from the lens. The magnification produced by the lens is: **(+1, -0.33)**

a. -3

b. 3

c. -1/3

d. 1/3

38. A bike running at a speed of 50 km/h reaches its destination 10 minutes late. If it runs at 60 km/h it is late by 5 minutes. How many minutes should the bike take, travelling at usual speed to complete the journey on the same route to reach on time? **(+1, -0.33)**

a. 15 minutes

b. 25 minutes

c. 20 minutes

d. 12 minutes

39. Four friends Himani, Shalaka, Mitali and Brinda are sitting around a square table facing the centre of the table. All four of them are sitting at the corners of the table. Himani is to the immediate right of Brinda. Mitali is to the immediate left of Shalaka. Himani is second to the left of Shalaka. After some time, Himani leaves her place and is replaced by Kamini. Similarly, Brinda is also replaced by Tara. Now who is sitting to the immediate left of Tara? **(+1, -0.33)**

a. Mitali

b. Shalaka

c. Brinda

d. Kamini

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40. The measure of each interior angle of a regular polygon is 120°. How many sides does this polygon have?   (+1, -0.33)

a. 7

b. 6

c. 5

d. 8

---

41. The mean of the data 9, 3, 5, 4, 4, 5 and y is y. What is the mode of the data?   (+1, -0.33)

a. 4

b. 5

c. 9

d. 3

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42. Which of the following is not a part of the Panchayati Raj system in India according to the Constitution?   (+1, -0.33)

a. Gram Panchayat

b. Gram Nigam

c. Jila Panchayat

d. Panchayat Samiti

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43. Find the volume of a sphere whose diameter is 12 cm. **(+1, −0.33)**

a. 864л cm³

b. 288п cm³

c. 284л cm³

d. 248п cm³

---

44. Three statements are given, followed by three conclusions numbered I, II, **(+1, −0.33)**
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.

Statements:

1. All blazers are dungarees.
2. No dungaree is scarf.
3. All pyjamas are dungarees.

Conclusions:

I. No blazer is scarf.
II. No blazer is pyjama.
III. Some blazers are pyjamas.

a. Only conclusion I and III follow

b. Only conclusion I follows

c. Only conclusion I and II follow

d. None of the conclusions follow

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45. Which of the following is a protein-splitting enzyme?   (+1, -0.33)

a. Ptyalin

b. Amylase

c. Lipase

d. Pepsin

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46. Kidney is an organ of excretion and osmoregulation in humans.   (+1, -0.33)
Regulation of which two substances is done by the kidneys?

a. Water and O_2

b. Sugar and salts

c. CO_2 and proteins

d. Water and salts

---

47. Which of the following is NOT a tributary of the Yamuna river system?   (+1, -0.33)

a. Hindon

b. Chambal

c. Sind

d. Chenab

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48. Some features of transportation in plants are mentioned below. Which option shows the INCORRECT feature?   **(+1, −0.33)**

   a. Vessels and Tracheids are dead cells and Sieve tubes are living

   b. Movement of both water and food is bidirectional

   c. Xylem transports water and Phloem transports food

   d. Water movement is by simple physical forces; food movement requires energy

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49. Which Indian Cricketer played his 100th test match against Sri Lanka in Mohali in March 2022?   **(+1, −0.33)**

   a. Rohit Sharma

   b. Ravichandran Ashwin

   c. Virat Kohli

   d. Ishant Sharma

$$\text{Simplify} \quad \frac{\sin A}{1 + \cos A} + \frac{1 + \cos A}{\sin A}.$$

50. **a.** 2sec A   **(+1, −0.33)**

   b. sec A

   c. cosec A

d. 2cosec A

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51. Which of the following is NOT a result of the ozone layer depletion?   **(+1, -0.33)**

a. The Earth getting more UV rays from the Sun

b. Tsunami

c. Immune deficiency disorders

d. Skin cancer

---

52. Select the set in which the numbers are related in the same way as are   **(+1, -0.33)**
the numbers of the following sets.

(Note: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 — Operations on 13 such as adding/subtracting/multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 are not allowed.)

(7, 175, 5)
(6, 294, 7)

a. (5, 140, 7)

b. (3, 192, 8)

c. (6, 216, 5)

d. (8, 412, 9)

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53. There are three numbers which are co-prime to one other such that the   **(+1, -0.33)**
product of the first two is 357 and that of the last two is 609. What is the

sum of the three numbers?

a. 91

b. 67

c. 83

d. 75

---

54. V, W, X, Y, Z, A and B are seven boxes kept one over the other but not necessarily in the same order. A is kept immediately above W. Only four boxes are kept between B and W. Only one box is kept between V and X. X is kept immediately above A. B is kept at the topmost position. How many boxes are kept between Z and Y?

(+1, -0.33)

a. Two

b. Three

c. Four

d. One

---

55. What is the angular distance covered by the second hand of a correct clock in 12 minutes?

(+1, -0.33)

a. 4762°

b. 5120°

c. 4320°

d. 5611°

---

56. In the year 2000, Monu was 3 times his sister's age. In 2010, he was 24 years older than her. Find Monu's age in 2010. **(+1, -0.33)**

    a. 38 years

    b. 46 years

    c. 52 years

    d. 62 years

---

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

Statement-I: Most carbon compounds are poor conductors of electricity.

Statement-II: Carbon compounds have low melting and boiling points.

    a. Both the statements are false

    b. Statement-II is true, and Statement-I is false

    c. Statement-I is true, and Statement-II is false

    d. Both the statements are true

---

58. A statement is given, followed by two assumptions I and II. Consider the information given in the statement to be true, and determine which of the assumptions logically follow from the statement. **(+1, -0.33)**

Statement:
There are several cracks in the outer walls of the building, which should be repaired before starting the painting of the walls to avoid problems like leakage in the future.

Assumptions:
I. Painting the outer walls may cause leakage problems.
II. Cracks in the outer walls may lead to leakage problems.

a. Only assumption II is implicit.

b. Neither assumption I nor II is implicit.

c. Both assumptions I and II are implicit.

d. Only assumption I is implicit.

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59. The insoluble substance formed in a solution during a chemical reaction is known as _____.   (+1, -0.33)

a. residue

b. aqueous solution

c. soluble salt

d. precipitate

---

60. Study the given letter, number, symbol series and answer the question that follows.   (+1, -0.33)

7 T % N 9 * M S 3 U = L 8 Y @ G & 3 E > 5 & R 3 ! K # 7 % H = Y 6

Find out the total number of letters that are immediately followed by a number and immediately preceded by a symbol.

a. 1

b. 2

c. 4

d. 3

---

61. Selectively permeable membranes are those that allow penetration of   (+1, -0.33)

   a. neither solvent nor solute molecules

   b. only solvent molecules but not solute molecules

   c. both solvent and solute molecules

   d. only solute molecules but not solvent molecules

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62. As per Annual Status of Education Report (rural) - 2021, what was the   (+1, -0.33)
    enrolment rate of children enrolled in government schools in the year
    2021?

   a. 65.3%

   b. 72.5%

   c. 70.3%

   d. 67.5%

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63. In a certain code language, ROUTINE is written as UORTENI and PLAYERS is   (+1, -0.33)
    written as ALPYSRE. How will BANKING be written in the same language?

   a. NABGNIK

   b. NABKGNI

   c. BNAKIGN

   d. NBAIGKN

---

64. Select the set in which the numbers are related in the same way as are the numbers of the following sets. **(+1, -0.33)**

(Note: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 — Operations on 13 such as adding/deleting/multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

(4, 3, 16)
(3, 5, 19)

a. (8, 2, 20)

b. (8, 1, 18)

c. (5, 2, 49)

d. (3, 2, 12)

65. Which of the following languages is NOT a classical language in India as on June 2022? **(+1, -0.33)**

a. Odia

b. Bengali

c. Sanskrit

d. Tamil

66. The value of $(3^0 + 3^{-2} + 3^{-1}) \times 27 =$ **(+1, -0.33)**

a. 3

b. 32

c. 23

d. 39

---

67. In a dynamo, electric current is produced using the principle of:　　　　(+1, -0.33)

   a. electromagnetism

   b. electric conduction

   c. electromagnetic radiation

   d. electromagnetic induction

---

68. Solve: $2(5x-3)+3(3x-5) = 93$　　　　(+1, -0.33)

   a. $x = 6$

   b. $x = 9$

   c. $x = -6$

   d. $x = -9$

---

69. A compound X is transparent crystalline solid. It has cleansing properties and used in manufacture of glass. Compound X is:　　　　(+1, -0.33)

   a. baking soda

   b. sodium hydroxide

   c. bleaching powder

d. washing soda

---

70. Which of the following is NOT a true statement? (+1, -0.33)

a. Diagonals of a rhombus bisect each other at right angles.

b. All squares are rhombuses.

c. Sum of any pair of adjacent angles of a rhombus is not 180°.

d. All sides of a rhombus are congruent.

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71. If a sum of money doubles itself in 10 years at compound interest, then in how many years will it become 16 times of itself at the same rate? (+1, -0.33)

a. 30

b. 20

c. 40

d. 10

---

72. Which of following is the world's largest food security programme extended till September 2022 by the Union Cabinet, Government of India in March 2022? (+1, -0.33)

a. Annapurna Scheme

b. Swaranjayanti Gram Swarozgar Yojana

c. Pradhan Mantri Garib Kalyan Anna Yojana

d. Mahatma Gandhi National Rural Employment Guarantee Act

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73. Ten years ago, a mother was 3 times as old as her son. 5 years ago she was times her son's age. What is her present age? **(+1, −0.33)**

   a. 30 years

   b. 35 years

   c. 55 years

   d. 45 years

---

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

   25, 36, 49, 66, 85, ?

   a. 103

   b. 110

   c. 105

   d. 108

---

75. Each of A, B, C, D, E and F has an exam on a different day of a week starting from Monday and ending on Sunday of the same week. Thursday is the only gap day on which no exam is held. E's exam is on Saturday. The exams of A and F are separated by one day that is the gap day. D's exam is immediately before F but is immediately after C. B's exam is on Sunday. On which day is D's exam held? **(+1, −0.33)**

   a. Friday

   b. Tuesday

    c. Wednesday

    d. Monday

---

76. Oral pills used for birth control change the hormonal balance of the body.   **(+1, −0.33)** How do these prevent pregnancy? Select the correct option.

    a. Lining of uterus breaks off

    b. Eggs are released but no fertilisation

    c. No formation of eggs

    d. Eggs are not released and no fertilisation

---

77. What is the main reason for the pollution of River Ganga by coliform   **(+1, −0.33)** bacteria?

    a. Immersion of unburnt corpses

    b. Chemical effluents from industries

    c. Washing of clothes

    d. Untreated sewage dumped in it

---

78. In this question, a statement is followed by two conclusions. Which of the   **(+1, −0.33)** two conclusions is/are true with respect to the statement?

Statement:
$C \leq F < E = D > G \geq H < I$
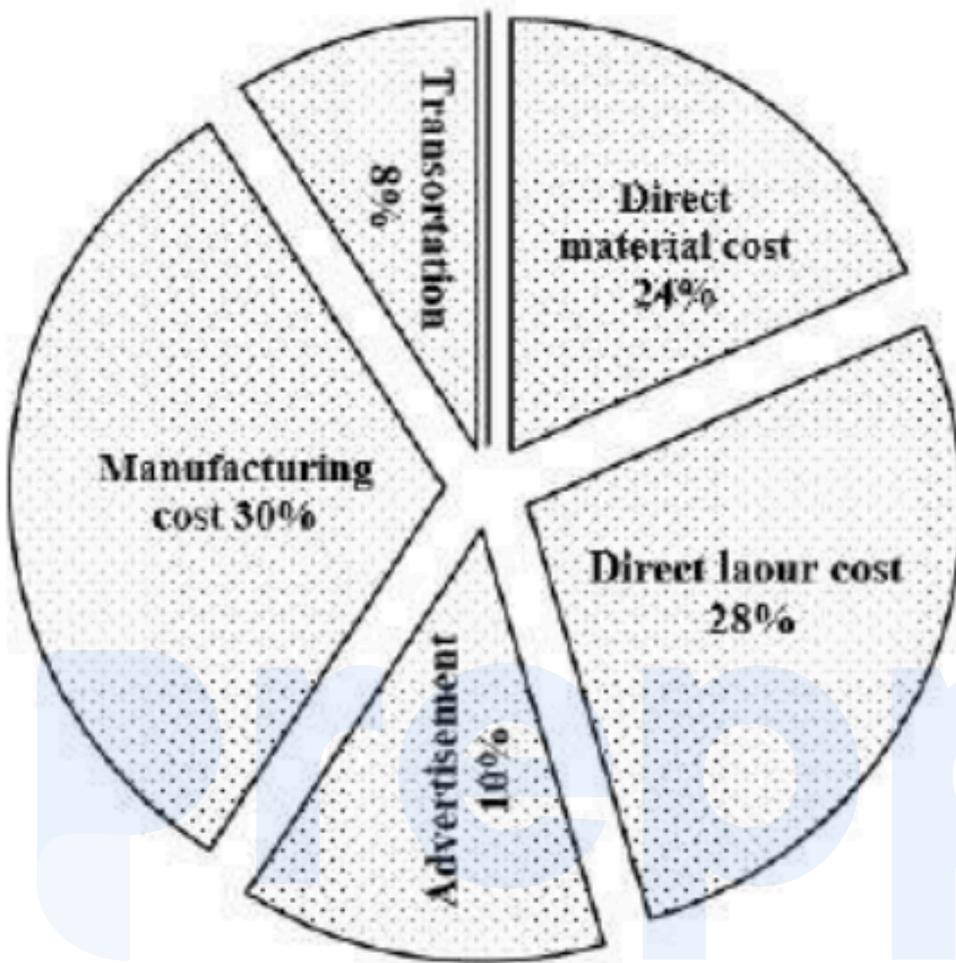
Conclusions:
I. D > C

II. E < H

   a. Neither conclusion I nor II is true

   b. Only conclusion II is true

   c. Only conclusion I is true

   d. Both conclusions I and II are true

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79. Given below are some conclusions of Mendel's work on pea plants. All of them are correct except one. Select the INCORRECT conclusion.   **(+1, -0.33)**

   a. Genes are inherited as distinct units.

   b. Segregation of genes takes place during formation of gametes.

   c. Each gamete has two copies of the same gene.

   d. Genes come in pairs.

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80. The following pie chart shows the percentage distribution of the expenditure incurred in manufacturing a power bank. Study the pie chart and answer the question.   **(+1, -0.33)**

Pie chart showing: Direct material cost 24%, Direct labour cost 28%, Advertisement 10%, Manufacturing cost 30%, Transoration 8%

If 100 power banks are manufactured and the manufacturing cost on them amounts to ₹50,000, then what should be the selling price of the power banks so that the manufacturer can earn a profit of 50%?

a. ₹2400

b. ₹2500

c. ₹2200

d. ₹3000

81. Four houses, A, B, C and D, are located in the same colony. House A is 300 m to the north of House D. House C is 400 m to the east of House B. House A is 300 m to the south of House B. In which direction is House D with reference to House B?　　(+1, -0.33)

a. West

b. North

c. South

d. East

82. If $x^2 + xy + x = 18$ and $y^2 + xy + y = 24$, then the value of $x + y$ is:　　(+1, -0.33)

a. -5 or 6

b. 5 or -6

c. 6 or -7

d. -6 or 7

83. From which state of India did ISRO successfully test fire the Vikas engine, that would power India's first human-carrying rocket Gaganyaan?　　(+1, -0.33)

a. Punjab

b. Tamil Nadu

c. Haryana

d. Rajasthan

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

Statement-I: Modern periodic table has 18 vertical columns known as groups.

Statement-II: Modern periodic table has 7 horizontal rows known as periods.

   a. Both statements are correct.

   b. Both statements are incorrect.

   c. Statement I is correct, Statement II is incorrect.

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

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

13, 27, 56, 115, 234,?

   a. 346

   b. 332

   c. 482

   d. 473

---

86. The average of thirteen consecutive integers is 36. If two times the smallest of these 13 integers is added to the largest of these 13 integers, what will be the sum obtained?   (+1, -0.33)

   a. 115

b. 121

c. 102

d. 110

---

87. Two resistors of 4Ω each are connected in parallel to a 5 V battery source. The total current in the circuit is: **(+1, −0.33)**

   a. 5 A

   b. 20 A

   c. 10 A

   d. 2.5 A

---

88. The value of √144 + √0.0169 − √4.41 = **(+1, −0.33)**

   a. 15.4

   b. 10.03

   c. 14.23

   d. 11.2

---

89. Three statements are given, followed by two conclusions numbered I and II. 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:

All sketches are cards.

All cards are posters.

Some sketches are folders.

Conclusions: I

. Some folders are posters.

II. Some cards are folders.

a. Only conclusion II follows

b. Only conclusion I follows

c. Either conclusion I or II follows

d. Both conclusions I and II follow

90. Which of the following home appliances does NOT use an electric motor?   (+1, -0.33)

a. Electric washing machine

b. Electric mixer

c. Electric iron

d. Electric fan

91. 4 people A, B, C and D are sitting in a straight line, facing north. A and C   (+1, -0.33)
are not sitting adjacent to each other, while C and B are sitting adjacent
to each other. Which of the following sitting arrangements is NOT
possible?

a. CBAD

   b. DABC

   c. BCAD

   d. ABCD

---

92. Which of the following materials is preferably used in making heating   **(+1, -0.33)** elements of electrical heating devices?

   a. Tungsten

   b. Tin-lead alloy

   c. Constantan

   d. Nichrome

---

93. The Union Budget 2022-23 has proposed to reduce the surcharge of   **(+1, -0.33)** cooperative societies from _ _ _ _ to 7% for those whose income is between ₹1 crore and ₹10 crore.

   a. 11%

   b. 10%

   c. 12%

   d. 9%

---

94. In the given letter-cluster pairs, the first letter-cluster is related to the   **(+1, -0.33)** second letter-cluster following a certain logic. Study the given pairs carefully, and from the given options, select the pair that follows the same logic.

TOP: VRU

XOR: ZRW

a. QIP: SLV

b. NET: PGY

c. NOR: PRW

d. TOM: VRQ

---

95. Select the option that represents the letters that, when placed from left to right in the same sequence in the blanks below, will complete the letter series.   (+1, –0.33)
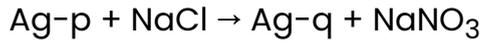
C_PR_DT_RN_T_RN_TP_N

a. TNPEPFR

b. TPNDPFR

c. TNTEPFP

d. PNPERFP

---

96. In February 2022, India became the first country in the world to play One Day International cricket matches.   (+1, –0.33)

a. 800

b. 1100

c. 1000

d. 900

97. What will come in place of p and q, respectively, in the given double displacement reaction? **(+1, -0.33)**

$Ag-p + NaCl \rightarrow Ag-q + NaNO_3$

a. NO_3 and Cl

b. Cl and NO_3

c. NO_3 and NO_3

d. Cl and Cl

---

98. In a certain code language, TOUGH is written as 20152178 and PLEAD is written as 1612514. How will CLOVE be written in the same language? **(+1, -0.33)**

a. 31115215

b. 31215225

c. 31215324

d. 31315235

---

99. Study the given table and answer the question that follows. **(+1, -0.33)**

The table shows the value of Indian exports across different goods for different years.

Year	2021	2020	2019	2018	2017	2016
Items	Amount in ₹ Crores					
Fruits	85	75	70	61	35	30
Pulses	35	20	35	60	70	40
IT products	200	160	100	120	90	85
Defence products	120	80	110	85	60	40
Dairy products	60	62	68	72	40	30

Question:

What is the yearly average exports (combined) of fruits, IT products, and defence products for 2018 to 2020?

a. ₹282 crores

b. ₹165 crores

c. ₹280 crores

d. ₹287 crores

100. A cyclist covers a distance of 2.5 km in 4 minutes 10 seconds. How long will he take to cover a distance of 6 km at the same speed?   (+1, -0.33)

a. 12 minutes

b. 11 minutes

c. 10 minutes

d. 9 minutes