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EXAM ID. - 10837

RAILWAY

GROUP - D

TEST SERIES

DATE - __/__/__

DAY -

INSTRUCTION FOR CANDIDATE

TEST SERIES NO.

A - 101

QUESTION – 100

MARKS – 100

NEGATIVE MARK – 0.33

DURATION – 90 MIN.

1. Use only ball pens with black or blue ink

2. As soon as the examination starts, you must check this question booklet and if there is any unprinted, mutilated or partially printed page or question in it, then replace it with the correct question booklet through Abhijagar.

3. There are total 100 questions in this question booklet.

4. This is an objective test, in which four options are given for the answer to each question, you have to choose only one option with the correct answer out of these four options.

5. Answers to all questions are to be written on separate answer sheets.

6. Instructions for filling the answer sheet are written on the back side of the answer sheet, read them carefully before filling the answer sheet.

7. Blank pages are available in this question booklet for rough work.

8. Candidates cannot leave the room before the end of the examination.

9. After the examination is over, you can go out with his permission by submitting the ORIGINAL COPY of the answer sheet to the invigilator.

10. After the completion of the examination, the candidate is allowed to take the question booklet and answer sheet with him/her.

11. 1 marks will be given for each correct answer and 0.33 marks will be deducted for each wrong answer.



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1. Which of the following organization is set up as the world's "Atoms for Peace"?

- a) United Nations Security Council
- b) International Atomic Energy Agency (IAEA)
- c) North Atlantic Treaty Organization
- d) United Nations General Assembly

2. Hooke's theory is related to which of the following?

- a) Fluid Pressure
- b) Elasticity
- c) Radioactivity
- d) None of these

3. At 3:30 p.m., the minute hand of a clock points towards East. Towards which direction the hour hand will point at 9:00 p.m.?

- a) South
- b) East
- c) Southwest
- d) none of these

4. The numbers divisible by 6 is

- i) 5994
- ii) 8668
- iii) 5986
- iv) 8982

- a) i
- b) i, ii and iii
- c) ii
- d) i and iv

5. Who was the female IAF officer awarded the Vayu Sena Medal for Gallantry on the 75th Republic Day 2024?

- a) Air Marshal Sadhna S. Nair
- b) Flying Officer Ankita Dongsuk
- c) Wing Commander Vijayalakshmi Ramanan
- d) Squadron Leader Nikita Malhotra

6. Which type of medicines are used for treating indigestion?

- a) Antibiotic
- b) Analgesic
- c) Antacid
- d) Antiseptic

7. Find the number of the triangle in the given figure:



- a) 8
- b) 9
- c) 10
- d) 7

8. In the following question, one term in the number series is wrong. Find out the wrong term.
3, 7, 15, 30, 63

- a) 30
- b) 63
- c) 15
- d) 3

9. Who among the following cricketers has authored the book 'Straight from the Heart : An Autobiography'?

- a) Sunil Gavaskar
- b) Sourav Ganguly
- c) Sachin Tendulkar
- d) Kapil Dev

10. A car approaching a school zone slows down from 36 m/s to 9 m/s with constant acceleration -3 m/s^2 . How much time is car required to slow down to final velocity?

- a) 11 seconds
- b) 9 seconds
- c) 8 seconds
- d) 12 seconds

11. In the following question find the odd one out from the given alternative

- a) Forgiveness
- b) Mercy
- c) Forgiveness
- d) filth

12. The price of sugar is increased by 25%. If a family wants to keep its expenses on sugar unaltered, then the family will have to reduce the consumption of sugar by:

- a) 22%
- b) 20%
- c) 25%
- d) 21%

13. Which company has launched BharatGPT, a generative AI platform aimed at creating multilingual virtual assistants?

- a) Open AI
- b) Coreover Private Limited
- c) Affle (India) Limited
- d) Zensar Technologies

14. The gravitational force between the two object is F. If masses of both objects are $1/4^{\text{th}}$ of their original masses without changing distance between them, then the gravitational force will become.

- a) $F/4$
- b) $F/8$
- c) $F/12$
- d) $F/16$

15. Directions: In the question below is given a statement followed by three assumptions numbered I, II, and III. An assumption is something supposed or taken for granted. You have to consider the statement and the following assumptions and decide which of the assumptions is implicit in the statement.

Statement: "If you want to secure a good rank in Joint Entrance Examination join Y institution." B tells C.

Assumption: I. B knows everything about Joint entrance Examination.

II. C always listens to B.

III. Y is a good institution for Joint entrance examination.

- a) Only assumption I is implicit.
- b) Only assumption II is implicit.

- c) Only assumption III is implicit. d) Either assumption II or III is implicit.
16. A wire is bent to form a square of side 22 cm. If the wire is rebent to form a circle, then its radius will be:
- a) 22 cm b) 14 cm
c) 11 cm d) 7 cm
17. What achievement did Prithvi Shekhar achieve in the Australian Open Deaf Championship?
- a) He won the singles title b) He won the doubles title
c) He was the runner-up in the singles title d) He was the runner-up in the doubles title
18. CO_2 when passed in excess, in lime water turns colourless again because of:
- a) Calcium Carbonate b) Calcium bicarbonate
c) Calcium Chloride d) Copper Carbonate
19. Read the given information and answer the question asked by choosing the most appropriate option.
Among 200 persons, 90 people like tea while 108 people like coffee and 46 people like both tea and coffee. How many persons like neither tea nor coffee?
- a) 46 b) 44
c) 62 d) 48
20. Which of the following fractions is the largest?
- a) $\frac{13}{19}$ b) $\frac{25}{31}$
c) $\frac{28}{31}$ d) $\frac{70}{79}$
21. What is the duration of the deal that Rolls-Royce has signed with Azad Engineering for the supply of military aircraft engine components?
- a) 5 year b) 7 years
c) 10 years d) 12 years
22. Long bones with air cavities and lungs with air sacs are the features of class
- a) amphibian b) Mammals
c) reptile d) the bird
23. If 10th August, 1998 was Thursday, what was the day of the week on 5th August, 1994?
- a) Monday b) Tuesday
c) Saturday d) Sunday
24. The question below consists of a question followed by two statements labeled as 1 and 2. You have to decide whether these statements are sufficient to answer the question.
Question: What is the value of $X+Y$?
Statements:
- 1) $X - 2Y = 5$
2) $X^2 - 25 = 4XY - 4Y^2$
- a) If statement 2 alone is sufficient to answer the question but statement 1 alone is not sufficient to answer b) If you can get the answer from 1 and 2 together
c) If you cannot get the answer from 1 and 2 together, still more data is required d) If statement 1 alone is sufficient to answer the question but statement 2 alone is not sufficient to answer
25. Whose statement is that - "If any government director ignores the elements, then it will surely have to be liable to the public for this"?
- a) Pt. Jawaharlal Nehru b) Mahatma Gandhi
c) Dr. B. R. Ambedkar d) Dr. Rajendra Prasad
26. BCG vaccine for tuberculosis immunisation was developed by ____.
- a) Edward Jenner b) Jonas Salk and Albert Sabin
c) Albert Calmette and Camille Guérin d) Louis Pasteur
27. In the question below, some statements are given followed by some conclusions. Taking the given statements to be true even if they seem to be at variance from commonly known facts, read all the conclusions and then decide which of the given conclusions logically follows the given statements.
Statements:
I. All Eagle are Lizard.
II. All rabbit are snake.
III. All snake are Eagle.
Conclusions:
I. All Rabbit are Lizards.
II. All Eagle are Rabbit.
III. All Lizard are Snake.
IV. All Snake are Lizard.
- a) Only conclusion I follows b) Only Conclusion I and IV follows
c) Only conclusion II and III follows d) All follow
28. A Shopkeeper incurs a loss of 20% after selling a machine for Rs 4800. In order to gain a profit of 20% at what price should the shopkeeper sell the same machine?
- a) 7500 rupees b) Rs. 7200
c) Rs. 6600 d) Rs. 6000
29. Maginot line exists between which country?
- a) Namibia and Angola b) USA and Canada
c) France and Germany d) Germany and Poland

30. What is the colour of rust usually formed on silver when it is kept in open?

- a) Blue b) Black
- c) Green d) Brown

31. On what dates on April 2001 did Tuesday fall?

- a) 3, 10, 17, 24 b) 4, 11, 18, 25
- c) 2, 9, 16, 23, 30 d) 1, 8, 15, 22, 29

32. Find the sum of the factors of 3240

- a) 10890 b) 11000
- c) 10800 d) 10190

33. 'Jagannath Temple' is situated in _____ state?

- a) Andhra Pradesh b) Odisha
- c) Karnataka d) Kerala

34. Who made the observation that there must be very large empty space within the atom ?

- a) Einstein b) Arrhenius
- c) Chadwick d) Rutherford

35. A statement is given below followed by two conclusions numbered I and II. You have to assume everything in the statement to be true, then consider the two conclusions together and decide which of them logically follows beyond a reasonable doubt from the information given in the statement.

Statement: In the Indian mindset, food, clothing and shelter are still considered to be the most basic requirements for survival.

Conclusion:

I. Food, clothing and shelter are sufficient to ensure a respectable life.

II. Man cannot survive if any of these three is taken away.

- a) Only conclusion I follows b) Only conclusion II follows
- c) Neither I nor II follows d) Both I and II follow

36. Two pipes A and B can independently fill a tank completely in 20 and 30 minutes respectively. If both the pipes are opened simultaneously, how much time will they take to fill the tank completely?

- a) 10 minutes b) 12 minutes
- c) 15 minutes d) 25 minutes

37. What is the IMF's estimated forecast for India's GDP growth in the current financial year?

- a) 6.0 percent b) 6.2 percent
- c) 6.3 percent d) 6.7 percent

38. Which of the following is called 'Pearl ash'?

- a) Na_2CO_3 b) NaHCO_3

- c) K_2CO_3 d) CaCO_3

39. Which of the following options has the correct water image of the picture given below:



- a)
- b)
- c)
- d)

40. From 125 m high towers, the angle of depression of a car is 45° . Then how far the car is from the tower?

- a) 125 m b) 60 m
- c) 75 m d) 95 m

41. "Indica" which is an account of Mauryan India was authored by

- a) Megasthenes b) Fahien
- c) Hiuen Tsang d) None of these

42. Which of the following is a pair of isotones?

- a) ${}^7\text{N}^{14}$, ${}^8\text{O}^{16}$ b) ${}^6\text{C}^{13}$, ${}^7\text{N}^{14}$
- c) ${}^6\text{C}^{12}$, ${}^6\text{C}^{14}$ d) ${}^{18}\text{Ar}^{39}$, ${}^{20}\text{Ca}^{40}$

43. Arrange these letters of each group to make a meaningful word and then find the odd one out.

- a) GHIET b) VEENS
- c) VIDEID d) ORFU

44. How many three digit numbers are divisible by 6?

- a) 196 b) 149
- c) 150 d) 151

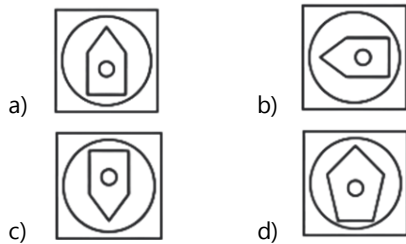
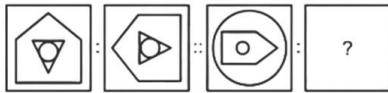
45. Who gave the title 'Father of Nation' to Mahatma Gandhi?

- a) Gopal Krishna Gokhale b) Subhash Chandra Bose
- c) Jawahar Lal Nehru d) Madan Mohan Malviya

46. Which of the following does not involve Total Internal Reflection?

- a) Mirages in Deserts b) Kaleidoscope
- c) Diamond Sparkle d) Transmission of light rays in Optical Fibres

47. Select the related figure from the given alternatives.



48. **Directions:-** Each of the question below consist of a question and two statements A and B given below it. You have to decide whether the data provided in the statements are sufficient to answer the question. Read the questions and both statements and give answer.

What is the speed of the train which crosses a tree in 12 s?

A. The length of the train is 360 m.

B. It crosses a railway platform of length 420 m.

- a) Statement A is alone sufficient to answer the question
- b) Statement B is alone sufficient to answer the question
- c) Both the statements independently are sufficient to answer the question
- d) Both the statements are not sufficient to answer the question

49. Which Mughal Emperor is called 'Zinda Peer'?

- a) Humayun
- b) Jahangir
- c) Akbar
- d) Aurangzeb

50. What is the unit used for measurement camera image resolution?

- a) Megabyte
- b) Terabyte
- c) Terapixels
- d) Megapixels

51. Which of the following figure represents the correct relationship?

Mountain, Ocean, Plateau



52. Two numbers are in the ratio of 4 : 5 and the product of the two is 8820. What is the sum total of the two numbers ?

- a) 180
- b) 189
- c) 198
- d) 207

53. Which among the five recently added Indian wetlands is not included in the Ramsar list by January 2024?

- a) Magadi Kere Conservation Reserve
- b) Ankasamudra Bird Conservation Reserve
- c) Pulicat Lake
- d) Aghanashini Estuary

54. If PAINT is coded as 74128 and EXCEL is coded as 93596, then how would you encode ACCEPT ?

- a) 455978
- b) 547978
- c) 554978
- d) 455968

55. If $A = \frac{1}{\sqrt{6}-\sqrt{5}}$ than $A^2 + \frac{1}{A^2} =$

- a) $4\sqrt{30}$
- b) 22
- c) 11
- d) None of these

56. Which one of the following gases is used for the purification of drinking water?

- a) Sulphur dioxide
- b) Chlorine
- c) Fluorine
- d) Carbon dioxide

57. What is the maximum snout-vent length of the newly discovered kangaroo lizard species, Agastyagama edge?

- a) 3.3 cm
- b) 4.3 cm
- c) 5.3 cm
- d) 6.3 cm

58. In a certain code language, 'STYLE' is written as '181924114'. How would 'FIRST' be written in the same code language.

- a) 58171820
- b) 69181920
- c) 58171819
- d) 58181920

59. Which of the following is not an electronic device?

- a) Radio
- b) Computer
- c) Television
- d) Bulb

60. If the simple interest on a sum of money for 5 years at 10% per annum is Rs. 900, what is the compound interest on the same at the same rate and for the 2 years?

- a) Rs. 378
- b) Rs. 300
- c) Rs. 400
- d) Rs. 410

61. Larsen & Toubro (L&T) has got the project to set up solar power plant in which country?

- a) Saudi Arab
- b) Kuwait
- c) Queue
- d) United Arab Emirates

62. An object was thrown upwards at a speed of 14 ms^{-1} and flew 10 m high. Calculate the time taken by the object to reach the highest point.

- a) 1.63 s
- b) 1.43 s

- c) 1.53 s d) 1.33 s
63. Sumit and Drona are brothers. Drona is married to Dhani. Dhani is mother – in – law of Shomit who is husband of Seema. How is Drona related to Shomit?
- a) Brother – in – law b) Brother
c) Father – in – law d) Father
64. Write 0.135135.... in the form of p/q.
- a) 5/37 b) 17/37
c) 19/7 d) 19/111
65. How much kinetic energy does a 160 g cricket ball have when it is thrown at a speed of 22 m/s?
- a) 176 J b) 1.76 J
c) 3872 J d) 38.72 J
66. Find the odd word from the given alternatives
- a) Kelvin b) Calorie
c) Candela d) Joule
67. What is the targeted installed capacity of solar energy in Delhi by 2027 as per Delhi Solar Policy 2024?
- a) 1500 MW b) 2500 MW
c) 3500 MW d) 4500 MW
68. If the average of a number, 50% of that number and 25% of the same number is 280, then the number is
- a) 280 b) 480
c) 360 d) None of these
69. What was the reason the British gave for dividing Bengal ?
- a) Political influence b) Financial convenience
c) Administrative convenience d) Security
70. Who invented the marine chronometer for measuring longitude while sailing on the oceans?
- a) Benjamin Franklin b) John Harrison
c) Archimedes d) Blaise Pascal
71. Choose the appropriate option to complete the following series.
20, 24, 33, 58, 107, ?
- a) 228 b) 187
c) 207 d) 171
72. If a shopkeeper cheats up to 12% in buying and selling fruits, using less weight, then his total profit percentage is:
A. 25.25
B. 27.27
- C. 25.75
D. 25.5
- a) B b) A
c) C d) D
73. Which Indian PSU signed a 10-year LNG supply agreement with UAE's ADNOC Gas?
- a) ONGC b) BPCL
c) GAIL d) IOCL
74. Loop of Henle is concerned with
- a) Reproduction b) Digestion
c) Excretion d) Respiration
75. Two statements S1 and S2 are given below followed by a question:
S1: Height and radius of the cylinder is 5 cm and 2 cm respectively.
S2: The curved surface area of the cylinder is 176 cm².
Question: What is the volume of cylinder?
Which one of the following is correct in respect of the Statement and the questions?
- a) S1 and S2 together are not sufficient to answer the question. b) S1 alone is sufficient to answer the question.
c) Both S1 and S2 together are sufficient to answer the question, but neither S1 nor S2 alone is sufficient to answer the question. d) S2 alone is sufficient to answer the question.
76. In a certain village, 6 women can work for 8 hr a day and finish work in 10 days. If 10 women are working for 6 hr a day, then how many days will they take to complete the work?
- a) 10 days b) 12.5 days
c) 13 days d) 8 days
77. 103rd Amendment of the Constitution deals with which of the following?
- a) 27% reservation for other backward classes b) Reservation for Economically Weaker Section
c) Goods and services tax d) Reservation for SC and ST seats in Lok Sabha
78. Which among the following type of plant do not have naked embryo?
- a) Angiosperm b) Pteridophyta
c) Bryophyta d) Thallophyta
79. In the following question, a statement followed by two arguments I and II. You have to decide which of

the arguments is a 'strong' argument and which is a 'weak' argument.

Statement:

Should Government levy heavy taxes on cigarettes?

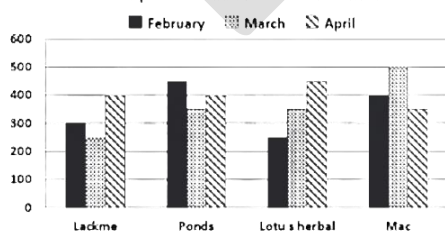
Arguments:

I. Yes. smoking is injurious to health and higher taxes will discourage buyers.

II. No. It is a source of income for the government.

- a) Only argument I is strong b) Only argument II is strong
- c) Neither argument I nor argument II is strong d) Both arguments I and II are strong
80. Find the number of pairs of natural numbers with the difference between the squares of two natural numbers being equal to 63.
- a) 2 b) 1
- c) 5 d) 3
81. Plants are divided into ____ groups.
- a) 6 b) 7
- c) 5 d) 4
82. In the following question below are given some statements followed by some conclusions based on those statements. Taking the given statements to be true even if they seem to be at variance from commonly known facts. Read all the conclusions and then decide which of the given conclusion logically follows the given statements:
- Statements:**
- I. Some chairs are pens**
- II. Some pens are cups.**
- III. All cups are table.**
- Conclusions:**
- I. Some tables are chairs.**
- II. Some cups are pens.**
- III. All tables are pens**
- a) Only conclusion II follow b) Only conclusion I follow
- c) Neither conclusion follow d) Only conclusion III follow
83. Direction: The graph shows the number of lipsticks sold by four different companies in three different months.

Number of lipsticks sold by four different companies in three different months



What is the average number of lipsticks sold by given four companies together in February?

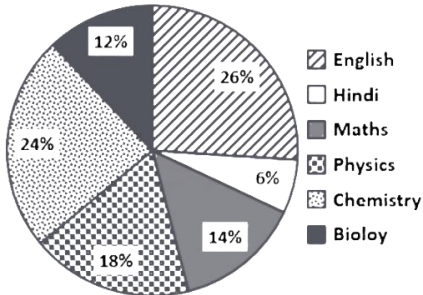
- a) 700 b) 350

- c) 900 d) 1000

84. A car starts from rest and acquires a velocity of 72 km/h in 5 sec. Find the distance travelled by car and assume the acceleration of the car is uniform?
- a) 40 m b) 45 m
- c) 50 m d) 55 m
85. D17N, G15P, J12R, M8T, ?
- a) P4V b) V4P
- c) P3V d) V3P
86. Find the value of k for the given expression:
 $\frac{1}{3} \times 2.1 + (6.5/0.5) - k \times 11.5 = -1.52$
- a) 2 b) -2.5
- c) 1.5 d) -1.5
87. Five friends L, M, N, O and P read a newspaper. The one who reads first gives it to N. The one who reads last had taken it from L. P was not the first or last to read it. There were two readers between M and L. Who read the newspaper last?
- a) L b) O
- c) M d) N
88. Rate of photochemical reactions depend upon ____
- a) pH b) Pressure
- c) amount of reactance d) intensity of light
89. A can do a piece of work in 12 days while B alone can do in 8 days. In how many days will the five times of the work be finished if they work together?
- a) 36 b) 18
- c) 24 d) 48
90. If the north direction will become southeast direction. then what is the west direction will become?
- a) Northeast b) South
- c) Northwest d) East
91. The speed of a train is 30 m/s. What will the speed of the train in km/h?
- a) 108 km/hr b) 210 km/hr
- c) 150 km/hr d) 300 km/hr
92. Which part of the brain controls the heart?
- a) Spinal Cord b) Medulla Oblongata
- c) Neuron d) None of these
93. Prabhas Jogs 10 m to North, then he turns right and jogs 8 m, then he turns to South and jogs 5 m, then he turns right and jogs 12 m. In which direction Prabhas is with respect to Starting Point?

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

94. The pie - chart shows percentage - wise distribution of teachers who teach six different subjects. Study the pie chart and answer the question:

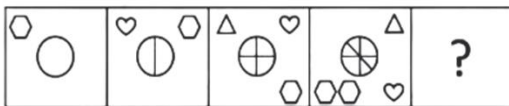


Total number of teachers = 1650

What is the total number of teachers teaching English, Maths and Physics?

- a) 857 b) 950
c) 975 d) 957

95. Select the option that can replace the question mark (?) in the following series.



- a) b)
c) d)

96. Calculate the acceleration produced when a force of 100 N is applied to an object of mass 50 kg.

- a) 0.2 ms^{-2} b) 0.2 ms^{-2}
c) 2 ms^{-2} d) 2 ms^{-2}

97. A series is given with one term missing. Select the correct alternative from the given ones that will complete the series.

A, ?, I, P, Y

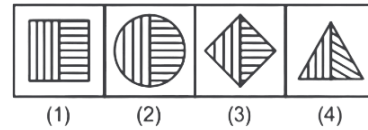
- a) F b) G
c) D d) E

98. From the given alternatives, select the best answer which has the same relationship as in the 1st pair.

Dice : Cube :: Chessboard : ?

- a) Rectangle b) Circular
c) Square d) Pentagon

99. Choose the figure which is different from the rest.



- a) 1 b) 2
c) 3 d) 4

100. Directions: Study the following Questions carefully and give answer accordingly:

Pointing to a lady, a man said, "The son of her only Brother is the brother of my wife." How is the lady related to that man?

- a) Mother's Sister b) Grandmother
c) Sister of father-in-law d) Mother-in-law