RRB NTPC STAGE -I MOCK TEST -1960

Time Allowed: 90 Minutes   **Maximum Marks: 100**

RRB NTPC STAGE –I MOCK   1960

Read the following instructions carefully before you begin to answer the questions.

INSTRUCTION TO CANDIDATE

1. This booklet contains 100 questions in all comprising the following 3 parts:
   Part - (I): QUANTITATIVE APTITUDE   (30 Question)
   Part – (II): REASONING APTITUDE   (30 Question)
   Part – (III): GENERAL AWARENESS   (40 Question)
2. All questions are compulsory and carry equal marks.
3. Before you start to answer the question you must check up this booklet and ensure that it contains all the pages and see that no page is missing or replaced. If you find any defect in this booklet, you must get it replaced immediately.
4. The paper carries negative marking. $\frac{1}{3}$ marks will be deducted for each wrong answer.
5. You will be supplied the Answer-sheet separately by the invigilator. You must complete the details of Name, Roll number, Test Id and name of the examination on the Answer-Sheet carefully before you actually start answering the questions. You must also put your signature on the Answer-Sheet at the prescribed place. These instructions must be fully complied with, failing which, your Answer-Sheet will not be evaluated and you will be awarded 'ZERO' mark.
6. Answer must be shown by completely blackening the corresponding circles on the Answer-Sheet against the relevant question number by HB pencil or Black/ blue ball pen only.
7. A machine will read the coded information in the OMR Answer-Sheet. In case the information is incompletely /different from the information given in the application form, the candidature of such candidate will be treated as cancelled.
8. The Answer-Sheet must be handed over to the Invigilator before you leave the Examination Hall.
9. Failure to comply with any of the above Instructions will render a candidate liable to such action/penalty as may be deemed fit.
10. Answer the questions as quickly and as carefully as you can. Some questions may be difficult and others easy. Do not spend too much time on any question.
11. Mobile phones and wireless communication device are completely banned in the examination halls/rooms. Candidates are advised not to keep mobile phones/any other wireless communication devices with them even switching it off, in their own interest. Failing to comply with this provision will be considered as using unfair means in the examination and action will be taken against them including cancellation of their candidature.
12. No rough work is to be done on the Answer-Sheet.

1. The value of $\sqrt{10+\sqrt{25+\sqrt{108+\sqrt{154+\sqrt{225}}}}}$

   (a) 8   (b) 4
   (c) 10   (d) 6

2. What is the value of
   $\sqrt{7.84}+\sqrt{0.0784}+\sqrt{0.000784}+\sqrt{0.00000784}$
   (a) 3.08   (b) 3.108
   (c) 3.1008   (d) 3.1108

3. If cosθ +secθ = 2, then what is the value of $\tan^2\theta + \sin^4\theta + \cos^2\theta$
   (a) 2   (b) 2^3
   (c) 2^3+2^4 (d) 1

4. There are two taps A and B to fill up a water tank. The tank can be filed in 10 min, if both taps are on. The same tank can be filed in 30 min, if tap A alone is on. How much time will tap B alone take, to fill up the half of same tank?
   (a) 15   (b) 30
   (c) $7\frac{1}{2}$ (d) $3\frac{1}{4}$

5. Two-thirds of three-fourths of one-fifths of a number is 7829.45.
   What is 10% of that Number?
   (a) 7829.45   (b) 782.945
   (c) 3514.23   (d) None of above

6. The radius of two circle are 15 cm and 6 cm. The distance between the centres is 11 cm. What is the number of common tangents?
   (a) 1   (b) 2
   (c) 3   (d) None of these

7. Two years ago the ratio of the ages of Ram and Shyam was 5:7 respectively. Two years hence the ratio of their ages will be 7:9 respectively. What is the present age of shyam?
   (a) 16 year   (b) 14.5 year
   (c) 12 year   (d) can't be determined

8. A, B and C enter into a partnership with investments of Rs. 3500, Rs. 4500 and Rs. 5500 respectively in the first six months, profit is Rs. 405. What is A's share in the profit?
   (a) 200   (b) 105
   (c) 250   (d) 151

9. A man gains 10% by selling a certain article for a certain price. If he sells it at double the price, then the profit made is–
   (a) 120%   (b) 60%
   (c) 100%   (d) 80%

10. During free live classes of Add247 on their YouTube channel, teacher told to student to write $2^5 \times 9^2$ but due to some technical glitches, a Student heard 2592. The numerical difference between the two is–
    (a) 3   (b) 0
    (c) 9   (d) 2

11. Ram borrows Rs. 8000 at 12% p.a. Simple interest and mohan borrows Rs. 9100 at 10% p.a. Simple interest in how many year will their borrowed amounts (debt) be equal?
    (a) 18   (b) 20
    (c) 22   (d) 24

12. If selling price of an article is $\frac{9^{th}}{5}$ of its cost price. The profit in the transaction is–
    (a) $33\frac{1}{3}$%   (b) 80%
    (c) 40%   (d) $66\frac{2}{3}$%

13. $16807 \div 343 \times \sqrt{\frac{56}{8}} \times \sqrt{\frac{9}{63}}$ = ?
    (a) 250   (b) 49
    (c) 180   (d) 343

14. Average age of 36 Children of the class is 15 years. 12 more children joined the class whose average age is 16 years. What is the average age of all the 48 children together?
    (a) 15.25   (b) 15.5
    (c) 15.3   (d) 15.4

15. Which of the following equation has real roots.
    (a) $3x^2+4x+5=0$ (b) $x^2+x+4=0$
    (c) $2x^2-7x+5=0$ (d) $2x^2-3x+4=0$

16. Priya borrowed Rs 10,000 at 10% per annum compound interest. The compound interest compounded annually for 3 years is–
    (a) 1331   (b) 3310
    (c) 3331   (d) 13330

17. The diameter of a circle is diagonal of a square whose side is 8 cm. find radius of that circle–
    (a) $8\sqrt{2}$ (b) 16
    (c) 4   (d) $4\sqrt{2}$

Direction (18-20): The population of a city is 1 lac. 45% people of that city like to read The Hindu newspaper and 40%people like to read Times of India.

18. How many people of city likes to read The Hindu?
    (a) 40,000   (b) 45000
    (c) 15000   (d) 85000

19. Find the ratio of people who likes to read Times of India to all people.
    (a) 5:2   (b) 8:9
    (c) 2:5   (d) 9:8

20. Find the number of people who likes to read both The Hindu and Times of India?
    (a) 85000   (b) 15000
    (c) 45000   (d) can't be determined

21. There are 60 term in an A.P of which the first term is 8 and the last term is 185. The 31st term is–
    (a)56   (b) 94
    (c) 85   (d) 98

22. Speed of a train is 72 kmph and it crosses a light pole in 40 sec and breadth pole is 2 meter find the length of train =?

(a) 800 m (b) 798 m
(c) 0.798 km (d) both (B) & (C)

23. The angle of elevation of a man to the top of a tower is 30°. If he changes his angle of elevation to 60° in $\frac{1}{\sqrt{3}}$ seconds. Find the speed of man, if height of tower 200 meter.
   (a) 400 (b) $\frac{200}{\sqrt{3}}$
   (c) $200\sqrt{3}$ (d) $400\sqrt{3}$

24. If $\sqrt{x} + \sqrt{121} = 12.3$, then the value of 10x is equal to -?
   (a) 1.50 (b) 16.9
   (c) 15.25 (d) 14.3

25. If product of two number is 1152 and their HCF is 24. Find their LCM
   (a) 24 (b) 56
   (c) 48 (d) 72

26. Find the mean of first seven prime numbers.
   (a) 5.60 (b) 8.28
   (c) 7.42 (d) 6.84

27. $4900 \div 28 \times 444 \div 12 = ?$
   (a) 6575 (b) 6475
   (c) 6455 (d) 6745

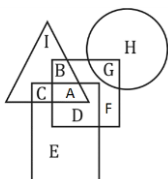**Directions (28-30):** Study the following data table carefully to answer these questions.

ITEMS	Price in Rs. Per kg	Quantity sold in quintals
A	17.5	20
B	10	30
C	7.5	45
D	12.5	40
E	15	25
F	10	35

28. If the quantity sold of item D increased by 50% and the price reduced by 10%, what was the total value of the quantity sold for Item D?
   (a) Rs 675 (b) Rs 6750
   (c) Rs 67550 (d) Rs 67500

29. Approximately, what is the average price per kg of items A, B and C?
   (a) Rs 9.50 (b) Rs 8
   (c) Rs 7.50 (d) Rs 11.6

30. What is the ratio between the total value of quantity sold for items E and F respectively?
   (a) 15:14 (b) 3:2
   (c) 5:7 (d) 7:5

REASONING APTITUDE

31. A is in the east of B which is in the north of C. if D is in the south of C, then in which direction of A, is D-
   (a) North-West (b) South
   (c) North – East (d) South-West

32. In a language FIFTY is written as CACTY, CAR as POL, TAR as TOL, How can TARIFF be written in that language?
   (a) TOEFEL (b) TOEFDD
   (c) TOLADD (d) TOLACC

33. Based on the analogy given, find the missing number from the given option.
   9: 24: ? : 6
   (a) 3 (b) 2
   (c) 1 (d) 5

34. If GOODNESS is coded as HNPCODTR. How can GREATNESS be written in that code?
   (a) HQFZSMFRT (b) HQFZUFRTM
   (c) HQFZUODTR (d) HQFZUMFRT

35. There are five houses P, Q, R, S and T. P is right of Q and T is left of R and right of P. Q is right of S. Which house is in the middle?
   (a) P (b) Q
   (c) T (d) S

Directions (36–38): Read the following information carefully to Answer the given questions.
V, U and T are sitting around a circular table. M, N and P are also siting around the same circle but two of them are not facing centre. V is second to the left of P. U is second to the right of M. N is third to the left of T. P is second to the right of T. M is seated next to V.

36. Which of the following are not facing centre?
   (a) NM (b) MP
   (c) NP (d) Can't be determined

37. Which of the following is the position of T with respect to N?
   (a) Third to the right (b) Second to the right
   (c) Third to the left
   (d) Third to the left or right.

38. Who is sitting Right of U?
   (a) T (b) V
   (c) P (d) N

39. Based on the statement(s) given below, choose the best possible conclusion(s) that follows:
   Statements: In case of outstanding candidates, the condition of previous experience in HR may be waived by the admission committee for MBA (HR)
   Conclusions: Some of the students for MBA (HR) will have previous experience in HR.
   I. Some of the students for MBA (HR) will not have previous experience in HR.
   (a) Only conclusion I follows
   (b) Only conclusion II follows
   (c) Both conclusion I and II follow
   (d) Neither conclusion I nor II follows.

40. Based on the relationship between the first two words, find out the missing word.
   Kerala: Thiruvananthapuram :: Andhra Pradesh: ?
   (a) Telangana (b) Chennai
   (c) Amaravati (d) Bengaluru

41. Find the odd one out

(a) Chrome (b) Mozilla
(c) Opera mini (d) internet

42. Pick the odd one out
(a) 50 (b) 145
(c) 170 (d) 255

43. Circle : Sphere :: Rectangle :?
(a) Cuboid (b) Sides
(c) Perimeter (d) Cone

44. If 'P' is daughter of 'Q' and is the mother of 'R'. How is 'Q' Related to 'R' ?
(a) Father (b) Son
(c) Grandparent (d) Grand child

45. Unscramble the letters 'OBKO' to form an English word and find the third letter of the unscrambled word?
(a) O (b) K
(c) B (d) Can't be determined

46. Rupesh said, pointing to a girl, "she is daughter of my maternal grandfather's only daughter" How the girl related to Rupesh?"
(a) Mother (b) Aunt
(c) Sister (d) Sister-in-law

47. Arrange the following word in alphabetical order and find the third word?
Singer, Single, Sinister, Simple
(a) Single (b) Singer
(c) Sinister (d) Simple

48. Heed : Neglect as Articulate:
(a) Unclear (b) enunciate
(c) eloquent (d) coherent

49. Find the odd one out.
49, 64, 81, 125, 144, 169
(a) 64 (b) 125
(c) 169 (d) 49

50. Find the odd one out.
(a) Mouse (b) Key-board
(c) Monitor (d) Software

51. If AMERICA = 1734651, INDIA = 68961. How will you write CANADA?
(a) 719181 (b) 518191
(c) 519581 (d) 715148

52. If 'a' represents ÷ , 'b' represents + , 'c' represents – , and 'd' represents 'x' then
24 a 6 d 4 b 9c8 = ?
(a) 6 (b) 17
(c) 20 (d) 19

53. In the following figure, square represents teachers, triangle represents Swimmers, Circle represents Nurses and rectangle represents women. Which set of letter represents teachers who are either swimmers or Nurses?

(a) D, F (b) A, B, D, F, G
(c) A, B, G (d) I, C, H

54. Which of the following will complete the pattern in the question figure?

(a)   (b)
(c)   (d)

55. If 23©50 = 0, 83©71 = 3 then what is the value of 69© 53 = ?
(a) 4 (b) 0
(c) 7 (d) 9

56. Select the figure that does not belong to the group.

(P) (Q) (R) (S)
(a) P (b) Q
(c) R (d) S

57. Select the correct mirror image of the problem from the given Answer figure.

(a)   (b)
(c)   (d)

58. How many triangles are there in the following figure?

(a) 30 (b) 33
(c) 34 (d) 32

59. In the given sequence which term is fourth to the right of the seventh term from the right end?
1@5BZPQ9µ#+7FEZ$
(a) F (b) Z
(c) P (d) E

60. Select the missing number from the given series.
12, 36, 80, 150, ?
(a) 252 (b) 243
(c) 236 (d) 256

61. First woman speaker of Loksabha was -
    (a) Margaret Alva   (b) Sorojini Naidu
    (c) Meira Kumar   (d) Indira Gandhi

62. Which among the following countries who's National Anthem has only music not words -
    (a) India   (b) Bahrain
    (c) Germany   (d) Spain

63. The 'World Population Day' is observed on -
    (a) 11th April   (b) 11th May
    (c) 11th July   (d) 12th August

64. Who was youngest Nobel Laureates in Nobel Prize history?
    (a) Lawrence Bragg   (b) Werner Heisenberg
    (c) Malala Yousafzai   (d) Paul A.M. Dirac

65. In Cyber Law terminology 'DOS' means -
    (a) Denial of Service   (b) Disk Operating System
    (c) Distant Operator Service (d) None of the above

66. The "Rashtriya Gokul Mission" announced by the Union Government aims at -
    (a) Conserve and develop indigenous breeds in a focused and scientific manner
    (b) Developing high milk yielding cow breeds
    (c) Curbing slaughtering of cattles
    (d) Eliminating Foot and Mouth disease in cattles

67. Where is the Headquarters of North-Central Railway Zone situated?
    (a) Allahabad   (b) Jabalpur
    (c) Bhopal   (d) Delhi

68. "Shadow Cabinet" is the features of administrative system of -
    (a) Britain   (b) Russia
    (c) India   (d) South Africa

69. Seasonal migration of people is known as -
    (a) Pastoralism   (b) Nomadism
    (c) Intra migration   (d) Transhumance

70. Which of the followings is not correct?
    (a) SIT - Special Intelligence Team
    (b) CNG - Compressed NaturaJ Gas
    (c) NGT - National Green Tribunal
    (d) KYC - Know Your Custome

71. "Long Walk to Freedom" is the autobiography of which one of the following Bharat Ratna recipients -
    (a) Jawaharlal Nehru   (b) S. Radhakrishnan
    (c) Khan Abdul Ghaffar Khan (d) Nelson Mandela

72. The Practice of separate Railway Budget was started in -
    (a) 1853   (b) 1885
    (c) 1905   (d) 1924

73. What is the name of the Parliament of Bangladesh?
    (a) Jatiya Sansad   (b) Majlis
    (c) People's Council   (d) National Assembly

74. The World Health Organization (WHO) is a specialised agency of the United Nations (UN) that is concerned with international public health. It is headquartered at
    (a) Sweden   (b) Switzerland
    (c) United Kingdom   (d) France

75. Who said that "Where there is no Law there will not be Liberty?"
    (a) John Locke   (b) Karl Marx
    (c) Plato   (d) Ma.chiavelli

76. Which of the following affects Biodiversity?
    (a) Environmental Pollution (b) Ocean acidification
    (c) Climate change   (d) All of the above

77. Chocolates has concentration of which of the following metals?
    (a) Lead   (b) Nickel
    (c) Zinc   (d) All of these

78. CD-ROM is a
    (a) Magnetic Memory   (b) Secondary Memory
    (c) Semiconductor Memory (d) Memory Register

79. Which of the following Dam is built on Chambal river?
    (a) Omkareshwar   (b) Gandhisagar
    (c) Tehri   (d) Sardar Sarovar

80. Which is the currency of Botswana?
    (a) Pula   (b) Real
    (c) Dinar   (d) Riel

81. Which one of the following is not an All India Service?
    (a) Indian Forest Service
    (b) Indian Administrative Service
    (c) Indian Police Service
    (d) Indian Foreign Service

82. Which of followings combination belongs to Bretton Woods institute?
    (a) IMF, World Bank   (b) IMF, WTO, Doha Round
    (c) World Bank, WTO, IBRD (d) None of the above

83. Exobiology is a science that deals with
    (a) Extinct life forms   (b) Life inside earth
    (c) Life in the outer space (d) Life in marine habitat

84. East West corridor comprising National Highways connecting -
    (a) Silchar to Porbander (b) Kolkata to Mumbai
    (c) Patna to Surat   (d) None of these

85. 'Wings of fire' is a book authored by -
    (a) Atal Bihari Vajpayee (b) Amit Chaudhary
    (c) APJ Abdul Kalam   (d) Bharat Karnad

86. The Ramsar Convention is related to:
    (a) Ban on animal organs trade
    (b) persistent chemical substances
    (c) Water conservation
    (d) Wetland conservation

87. The name of India's first aircraft carrier is
    (a) INS Nilgiri   (b) INS Himgiri

(c) INS Kukri   (d) INS Vikrant

88. The normal term of office of UN Secretary-General is
    (a) 3 years   (b) 4 years
    (c) 6 years   (d) 5 years

89. The Buddha died at which place in India?
    (a)Bihar   (b)Uttar Pradesh
    (c)Madhya Pradesh   (d)Sikkim

90. The idea of Lokpal is taken from
    (a)America   (b) Britain
    (c) France   (d) Scandinavian countries

91. Who coined the term 'Hindu rate of growth' for Indian economy?
    (a) Montek Singh Ahluwalia   (b)A.K. Sen
    (c) Kirit S. Parikh   (d) Raj Krishna

92. What does the letter 'S' denotes in 'AFSPA' an abbreviation we every often see in newspapers?
    (a)State   (b) Solid
    (c) Special   (d) Slow

93. SIMBEX is an annual joint maritime bilateral exercise conducted between?
    (a) India and Singapore   (b) China and India
    (c) Singapore and Indonesia   (d) Malaysia and Thailand

94. The Minimum temperature at which a combustible substance catches fire is called
    (a) Fireless temperature   (b) Ignition Temperature
    (c) Static temperature   (d) Optimum temperature

95. The depiction of the stones of the previous lives of Gautama Buddha was first done in the art of
    (a) Sarnath Pillar of Asoka   (b) Bharhut Stupa
    (c) Mahabalipuram temples   (d) Ellora Caves

96. Shanghai Cooperation Organization summit 2019 will held at
    (a)China   (b)Italy
    (c)Singaopore   (d) Kyrgyzstan

97. In which state 100th Airport of India was inaugurated?
    (a)Sikkim   (b)Nagaland
    (c)Manipur   (d)Assam

98. Which award is given in the field of Science & Technology?
    (a)Stirling Prize   (b)Pritzker Prize
    (c)Shanti Swarup Bhatnagar Prize
    (d)International Gandhi Peace Prize

99. Which is the cleanest capital city of India according to Swachh Surveskhan 2019 report?
    (a)Bhopal   (b)Indore
    (c)Raipur   (d)Chandigarh

100. Which is the latest country to join the International Criminal Court?
    (a)Malaysia   (b) South Sudan
    (c)Macedonia   (d) India