DO NOT REMOVE THIS SHEET / इस शीट को न फाड़ें

Duration : (1½ Hours / 90 Minutes) समय : (1½ घंटे / 90 मिनट)	Exam Code : परीक्षा कोड : **1482**
No. of Pages / पृष्ठों की संख्या : **88**	Question Booklet No. : प्रश्न–पुस्तिका संख्या : **8020221**
Roll No. : अनुक्रमांक:	OMR Answer sheet No. OMR उत्तर शीट क्र.
Date of Examination : परीक्षा तिथि :	Total Marks / कुल अंक : **100**
**Candidate's Name / **परीक्षार्थी का नाम	****Candidate's Signature / **परीक्षार्थी का हस्ताक्षर**

** As given in application form / ** जैसा आवेदन पत्र में भरा हो

The candidate will first open only the **Green** seal and read the complete set of instructions carefully.

परीक्षार्थी पहले केवल **हरी** सील खोलें और सभी निर्देशों को ध्यान से पढ़ें।

SEAL

The question paper is made up of the following sections as tabulated below :

निम्न तालिका में दर्शाये अनुसार, इस प्रश्न पत्र को निम्नलिखित भागों में विभाजित किया गया है :

Section/भाग	Language/भाषा	No. of Questions/प्रश्नों की संख्या	Pages/पृष्ठ	
			From/से	To/तक
Section - I	English	100	8	19
Section - II	Hindi/हिन्दी	100	20	32
Section - III	Urdu/اردو	100	33	46
Section - IV	Telugu/తెలుగు	100	47	60
Section - V	Kannada/ಕನ್ನಡ	100	61	73
Section - VI	Marathi/मराठी	100	74	86

Write the following 'Paragraph' at the specified place in the OMR Answer-Sheet in your own handwriting.

निम्नलिखित 'पैराग्राफ' को अपनी हस्तलिपि में ओ.एम.आर. उत्तर-पत्रक में दिये गये स्थान में लिखें।

Paragraph : We all know the popular saying "Health is Wealth". By health we do not mean the absence of physical troubles only. But it is a state of complete physical;, mental and social well-being. The loss of health is loss of all happiness. Mahatma Gandhi also says, "It is health which is real wealth, and not pieces of gold and silver".

SECTION - I

ENGLISH

1. Which of the following mineral is used to produce aluminium ?

(A) manganese   (B) Copper   (C) Bauxite   (D) Chromite

2. The weight of a body is highest at the :

(A) Equator   (B) Poles

(C) Tropic of cancer   (D) Tropic of Capricorn

3. The book 'Mother India' was written by :

(A) Katherine Mayo   (B) Indira Gandhi

(C) Mother Teresa   (D) Sarojini Naidu

4. $\left[2\frac{1}{8} \div 1\frac{7}{11}\right] \div \left[3\frac{1}{4} \times \frac{8}{16}\right] \times \left[4\frac{3}{5} \div \frac{25}{10}\right] =$

(A) 1   (B) $1\frac{1}{2}$

(C) $1\frac{6}{5}$ (D) None of the above

5. Who was the first to discover that electricity and magnetism are intimately connected ?

(A) Newton   (B) Edison   (C) Faraday   (D) Maxwell

6. Scientist who discovered blood group is :

(A) Krebs   (B) Pavlov

(C) Karl Landsteiner   (D) Darwin

7. ₹ 3,900 is divided into three parts A, B, C. How much A is more than C if their ratio is $\frac{1}{2} : \frac{1}{3} : \frac{1}{4}$?

(A) ₹ 300   (B) ₹ 600   (C) ₹ 900   (D) ₹ 1,800

8. The soil suitable for the cultivation of tea is :

(A) Red soil   (B) Black soil   (C) Alluvial soil   (D) Laterite soil

9. The plants which prepare their own food are called :

(A) Heterotrophs   (B) Autotrops   (C) Saprophytes   (D) Parasites

10. The highest policy making body in matters relating to national planning is the :

(A) Planning Commission   (B) Finance Commission

(C) Inter - state Council   (D) National Development Council

11. The speed of the light depends :

(A) On elasticity as well as inertia

(B) On elasticity of the medium only

(C) On inertia of the medium only

(D) Neither on elasticity nor on inertia

12. In a river a man takes 3 hours in rowing 3 km upstream or 15 km downstream. What is the speed of the current ?

(A) 2 km/hr   (B) 4 km/hr   (C) 6 km/hr   (D) 9 km/hr

13. $58 \times 23 \times 8 \div 4 =$

(A) 2468   (B) 2568   (C) 2668   (D) 2768

14. Transistor is a combination of two :

(A) Resistors   (B) Capacitors   (C) Diodes   (D) IC

15. Project 'sea-bird' is the code name of :

(A) INS kadamba   (B) INS iravat   (C) INS shivalik   (D) INS khukri

16. In the month of January out of ₹ 3,500 a person lend ₹ 1,500 at 4% simple interest and ₹ 1,000 at 3% simple interest. At what rate he must lend the balance money so that his total income may become 5% on ₹ 3,500 at the end of the year :

(A) 7.5%   (B) 8.5%   (C) 6.0%   (D) 2%

17. What is the Atomic number of calcium ?

    (A) 21   (B) 20   (C) 17   (D) 22

18. $\dfrac{1}{2} + \dfrac{1}{4} + \dfrac{15}{4} - \dfrac{9}{8} =$

    (A) $3\dfrac{3}{8}$ (B) $2\dfrac{3}{8}$ (C) $3\dfrac{8}{3}$ (D) $2\dfrac{8}{3}$

19. Full form of TDS is :

    (A) Tax deduction from salary   (B) Tax deduction system

    (C) Tax deduction at source   (D) None of the above

20. The southern most river system in India is :

    (A) Godavari   (B) Krishna   (C) Cauvery   (D) Mahanadi

21. Which of the following is the cause of suffering of aged people from joint pains ?

    (A) Overproduction of synovial fluids

    (B) Drying up of synovial fluids

    (C) Presence of more osteocyte

    (D) Absence of more osteocyte

22. The Lingaraja Temple built during the medieval period is located at :

    (A) Bhubaneshwar (B) Khajuraho   (C) Madurai   (D) Mount Abu

23. The red colour in the red soil is due to :

    (A) Phosphoric acid (B) Humus   (C) Nitrogen   (D) Iron

24. Average age of 5 children of the family is 11 years. Average age of their parents and grand mother is 35 years. Find the average age of all the eight members of family ?

    (A) 10 years   (B) 20 years   (C) 30 years   (D) 25 years

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25. A.P.J Abdul Kalam, the former President of India received the prestigious Bharat Ratna Award in the year :

    (A) 1992   (B) 1995   (C) 1997   (D) 1998

26. Most commonly used bleaching agent is :

    (A) Alcohol   (B) Carbon dioxide (C) Chlorine   (D) Sodium chloride

27. Temperature in oceans :

    (A) Decreases with increase in depth (B) Increases with increasing depth
    (C) Remains constant   (D) None of the above

28. Full form of OPIC is :

    (A) Organised Private Investment Corporation
    (B) Overseas Private Investment Companies
    (C) Overseas Private Investment Corporation
    (D) None of the above

29. In which water body is the republic of maldives situated ?

    (A) Arabian Sea (B) Bay of Bengal (C) Indian Ocean (D) Atlantic Ocean

30. Srinagar is situated on the bank of river :

    (A) Ravi   (B) Sutlaj   (C) Jhelum   (D) Chenab

31. Full form of MODVAT :

    (A) Modified Value Added Tax   (B) Modified Value Alternative Tax
    (C) Modified Value Assured Tax   (D) None of the above

32. At the end of 2012 London Olympics which country topped the medal tally with the total of 104 medals ?

    (A) Italy   (B) China   (C) Hungary   (D) US

33. Water is naturally purified by :

    (A) Evaporation and condensation   (B) Transpiration and evaporation
    (C) Precipitation and infiltration (D) Condensation and transpiration

34. Anup Sridhar is well known for playing :

(A) Badminton   (B) Chess   (C) Foot ball   (D) Table tennis

35. Which one of the following states has the world's largest fresh water island ?

(A) Uttar Pradesh   (B) Karnataka   (C) Bihar   (D) Assam

36. 7, 7, 14, 42, _____, 840.

(A) 158   (B) 168   (C) 178   (D) 188

37. The tropic of cancer passes through all of the following states, except :

(A) Bihar   (B) Gujarat   (C) Maharastra   (D) Tripura

38. If 5% more is gained by selling a calculator for ₹ 350 than by selling it for ₹ 340 what is the cost of price of the calculator ?

(A) ₹ 225   (B) ₹ 215   (C) ₹ 200   (D) ₹ 195

39. Nobel Prize winning Indian Amarthya Sen is known for his work in :

(A) Physics   (B) Chemistry   (C) Medicine   (D) Economics

40. Which constitutional amendment reduces the voting age from 21 years to 18 years ?

(A) 52nd Amendment   (B) 59th Amendment
(C) 62nd Amendment   (D) 69th Amendment

41. Which one of the following lakes is a salt water lake ?

(A) Sambhar   (B) Wular   (C) Dal   (D) Gobind Sagar

42. Deepika Kumari is associated with :

(A) Archery   (B) Shooting   (C) Boxing   (D) Kabaddi

43. The example for diamagnetic substance is :

(A) Bismuth   (B) Nickel   (C) Iron   (D) Oxygen

44. The best conductor of heat among liquid is :

    (A) Water   (B) Mercury   (C) Ether   (D) Alcohol

45. The charge carried in semiconductor are :

    (A) Electrons   (B) Holes

    (C) Ions   (D) Electrons and holes

46. Which of the following elements behave chemically both as metal and non - metal ?

    (A) Argon   (B) Carbon   (C) Xenon   (D) Boron

47. Which one of the following plants is grown in rice field as a substance of nitrogen fertilizer ?

    (A) Azolla Fern   (B) Zemmia

    (C) Cylindro Spermum   (D) All of these

48. Which one of the following is a linear molecule ?

    (A) H_2O (B) CO_2 (C) SO_2 (D) H_2S

49. One of the following can not be performed by animals :

    (A) Respiration   (B) Photosynthesis   (C) Reproduction   (D) Digestion

50. Tirupati is situated in the valley of :

    (A) Ratnagiri Hills   (B) Nilgiri Hills

    (C) Seshachalam Hills   (D) Nandigama Hills

51. One train is travelling 45 km an hour and the other is at 10 metres a second. The ratio of the speed of the two trains is :

    (A) 5 : 4   (B) 4 : 5   (C) 9 : 2   (D) 2 : 9

52. $34.1 \times 1.34 \times 11.34 \times 0.13 =$

    (A) 374.15028   (B) 67.3620948   (C) 374.15208   (D) 374.12508

53. Rudrasagar and Lakwa oil fields are located in :

    (A) Assam   (B) Maharastra

    (C) Gujarat   (D) Andhra Pradesh

54. Which of the following is a water borne disease ?

   (A) Tuberculosis (B) Cholera (C) Influenza (D) Malaria

55. A, B, C entered a business by investing ₹ 10,000 each. After 6 months, A and C withdrew ₹ 5,000 from their investment. At the end of the year, the total profit is ₹ 1,00,000. Find the share of A and C in the profit.

   (A) ₹ 30,000 each   (B) ₹ 60,000 each

   (C) ₹ 1,20,000 each   (D) None of the above

56. Laser is used in treatment of diseases of :

   (A) Heart (B) Bone fracture (C) Lung (D) Brain

57. In how many fields is nobel prize awarded ?

   (A) Five (B) Six (C) Seven (D) Eight

58. When a car moves on a curved but level road, the necessary centripetal force on the car is provided by :

   (A) Inertia

   (B) Gravity

   (C) Friction between the tyres and the road

   (D) Normal reaction of the car

59. Aim of operation black board is :

   (A) Providing education to urban slum dwellers

   (B) Providing primary education in educationally backward areas

   (C) Opening new schools for female child

   (D) Providing adult literacy

60. $(2.52 \div 1.8) + (2.73 \div 1.3) + (1.44 \div 1.2) =$

   (A) 4.6 (B) 4.7 (C) 4.8 (D) 4.9

61. A current can flow when the circuit is :

   (A) Open   (B) Closed

   (C) Either closed or open   (D) None of the above

62. Department of pharmaceuticals comes under which of these ministries ?

    (A) ministry of health

    (B) ministry of chemical and fertilizers

    (C) ministry of food processing

    (D) ministry of consumer affairs

63. Which part of nervous system controls involuntary actions ?

    (A) Medulla oblongata

    (B) Cerebellum

    (C) Hypothalamus

    (D) Spinal cord

64. The radiations used in the physiotherapy is :

    (A) Micro waves
    (B) IR
    (C) X-ray
    (D) Gamma rays

65. Which of the following are measured in mhos ?

    (A) Resistance
    (B) Resistivity
    (C) Conductance
    (D) Conductivity

66. The strategy of "Divide and Rule" was adopted by :

    (A) Lord Curzon
    (B) Lord Minto
    (C) Lord Dalhousie
    (D) Lord Wellesley

67. Which one of the following rights was described by Dr. B. R. Ambedkar as the heart and soul of the constitution ?

    (A) Right to freedom of religion

    (B) Right to property

    (C) Right to equality

    (D) Right to constitutional remedies

68. Full form of MMTC is :

    (A) Minerals and Metals Trading Corporation

    (B) Mines and Minerals Trading Corporation

    (C) Mines and Metals Trading Corporation

    (D) Minerals and Metals Transportation Company

69. Where is National Institute of Mental Health and Neuro Science located ?

    (A) Hydrabad
    (B) Mumbai
    (C) Bengaluru
    (D) Chennai

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70. $1.1 + 99099.90009 + 9.00001 - 8672.1 - 90430.00010 =$

   (A) 7.9   (B) 7.91   (C) 7.0   (D) 7.009

71. Which is alkaline earth metal in the following :

   (A) Potassium   (B) Sodium   (C) Rubidium   (D) Radium

72. Casein contained in milk is :

   (A) Fat   (B) Carbohydrates

   (C) Protein   (D) None of the above

73. $3333921 + 6777189 - 9998909 - 79566 + 79566 =$

   (A) 1,32,635   (B) 1,12,201   (C) 1,21,201   (D) 1,12,209

74. Holding a 'Bandh' was declared illegal for the first time in India by which one of the following High Court ?

   (A) Rajastan High Court   (B) Gujarat High Court

   (C) Kerala High Court   (D) Maharastra High Court

75. A tank can be filled by one tap in 6 hours and by another tap in 8 hours. How long it will take to fill the tank, if both the taps are opened together ?

   (A) $3\frac{2}{7}$ hours   (B) $3\frac{3}{7}$ hours

   (C) $3\frac{1}{7}$ hours   (D) None of the above

76. An example of paramagnetic substance is :

   (A) Bismuth   (B) Platinum   (C) Mercury   (D) Gadolinium

77. The Pong dam is situated on which river ?

   (A) Damodar   (B) Narmada   (C) Penner   (D) Beas

78. In India, the first municipal corporation was set up in which among the following :

   (A) Kolkata   (B) Madras   (C) Mumbai   (D) Delhi

79. Who wrote the composition 'Bhajagovindam' ?

   (A) Adi Shankaracharya　　　　　(B) Ramakrishna paramahansa

   (C) Jayadeva　　　　　　　　　　(D) Ramana Maharshi

80. Deccan plateau is primarily made up of :

   (A) Basalt　　　　(B) Granite　　　　(C) Lime Stone　　　　(D) Sandstone

81. The oldest Indian language is :

   (A) Telugu　　　　(B) Hindi　　　　(C) Tamil　　　　(D) Punjabi

82. Out of the total income, a person spends 15% on house rent and 65% of the rest on house hold expenditure. If he saves ₹ 8,925, what is his total income ?

   (A) ₹ 44,625　　　　　　　　　　(B) ₹ 30,000

   (C) ₹ 25,000　　　　　　　　　　(D) None of the above

83. $(11890 \div 29) + (10634 \div 26) - (7850 \div 25) =$

   (A) 505　　　　(B) 510　　　　(C) 515　　　　(D) 520

84. Which two organs / glands are affected by malaria ?

   (A) Lungs and heart　　　　　　(B) Spleen and liver

   (C) Kidney and lungs　　　　　　(D) Heart and brain

85. Which of the following is not a radioactive element ?

   (A) Uranium　　　　(B) Thorium　　　　(C) Radium　　　　(D) Cadmium

86. Sawai Man Singh stadium is in :

   (A) Delhi　　　　(B) Pune　　　　(C) Jaipur　　　　(D) Kanpur

87. 5 years ago Raju's age was one third of the age of Ravi and now Raju's age is 15 years. What is the present age of Ravi ?

   (A) 30 years　　　　　　　　　　(B) 35 years

   (C) 45 years　　　　　　　　　　(D) None of the above

88. Which of the following is used in meteorology ?

 (A) γ-rays   (B) Radio cobalt   (C) Radio sodium   (D) Radioactive gases

89. Which of the following gases is used in refrigeration ?

 (A) Sulphur dioxide   (B) Chlorine   (C) Freon   (D) Phosphine

90. Radio-activity was discovered by :

 (A) Rutherford   (B) J.J. Thomson   (C) Madam curie   (D) Henri Becqueral

91. The study of fungi is known as :

 (A) Phycology   (B) Mycology   (C) Polymology   (D) Protozoology

92. Tetanus is caused by :

 (A) Clostridium   (B) Virus   (C) Bacteriophage   (D) Salmonella

93. The best soil for cotton cultivation in India is :

 (A) Alluvial soil   (B) Black basaltic soil

 (C) Sandy loam   (D) Laterite soil

94. Arobica and Robusta are the prominent varieties of :

 (A) Tea   (B) Cotton   (C) Coffee   (D) Pulse

95. $6\frac{1}{8} \times 12\frac{3}{4} \times 1\frac{1}{7} \times 2\frac{2}{7} =$

 (A) 200   (B) 202   (C) 204   (D) 206

96. Which one of the following is used in the preparation of antiseptic solution ?

 (A) Potassium Nitrate   (B) Iodine

 (C) Iodine Chloride   (D) Potassium chloride

97. NABARD was established on the recommendations of :

    (A)   Public Accounts Committee   (B)   Shivaraman Committee

    (C)   Narsimhan Committee   (D)   None of the above

98. The percentage of iron in blood is :

    (A)   15 to 20   (B)   20 to 30   (C)   30 to 40   (D)   60 to 70

99. In endothermic reaction :

    (A)   Heat is absorbed   (B)   Heat is evolved

    (C)   No heat change occurs   (D)   Heat may be absorbed or evolved

100. Which one of the following is the highest mountain peak ?

    (A)   Nanga Parbat   (B)   Nanda Devi   (C)   Kanchenjunga   (D) K_2

- o0o -

RRC Group 'D' Exam 2014 Key

Held on 23.11.2014 (Afternoon Session)

Q.No.	Ans	Q.No.	Ans	Q.No.	Ans	Q.No.	Ans
1	C	26	C	51	A	76	B
2	B	27	A	52	B	77	D
3	A	28	C	53	A	78	B
4	D	29	C	54	B	79	A
5	C	30	C	55	A	80	A
6	C	31	A	56	D	81	C
7	C	32	D	57	B	82	B
8	D	33	A	58	C	83	A
9	B	34	A	59	B	84	B
10	D	35	D	60	B	85	D
11	D	36	B	61	B	86	C
12	A	37	C	62	B	87	B
13	C	38	C	63	D	88	B
14	C	39	D	64	B	89	C
15	A	40	*	65	C	90	D
16	B	41	A	66	A	91	B
17	B	42	A	67	D	92	A
18	A	43	A	68	A	93	B
19	C	44	B	69	C	94	C
20	C	45	D	70	A	95	C
21	B	46	D	71	D	96	B
22	A	47	A	72	C	97	B
23	D	48	B	73	B	98	C
24	B	49	B	74	C	99	A
25	C	50	C	75	B	100	D

(Note: There is no correct answer for * mark question**)**