South Central Railway Recruitment Cell

Group 'D' Exam (English) Held on 09-11-2014

AK   1442

DO NOT REMOVE THIS SHEET / इस शीट को न फाड़ें

Duration : (1½ Hours / 90 Minutes) समय : (1½ घंटे / 90 मिनट)	Exam Code : परीक्षा कोड :	**1442**
No. of Pages / पृष्ठों की संख्या : **88**	Question Booklet No. : प्रश्न-पुस्तिका संख्या :	**4015392**
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 **Yellow** seal and read the complete set of instructions carefully.

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

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 : Stress is not a new phenomenon. It has been experienced throughout history. Stress is a biological response to some stimulus. Fear, panic, anger, tragedy and especially pressure can cause it. Stress can result in the competitiveness needed to succeed in business, relationships, sports and education. Is stress bad or good ? It is both.

SECTION - I

ENGLISH

1. A and B started a business by investing ₹ 25,000 each. After 5 months B withdraws from the business and C joins investing ₹ 25,000. At the end of the year the profit is ₹ 24,000. Find the share of C in the profit.

   (A) ₹ 7000   (B) ₹ 5000

   (C) ₹ 12,000   (D) None of the above

2. The gland that is present close to Trachea is :

   (A) Pancreas   (B) Liver   (C) Adrenal   (D) Thyroid

3. What do we call a substance that is repelled by a magnet ?

   (A) Paramagnet   (B) Diamagnet   (C) Ferromagnet   (D) None of these

4. Which one among the following muscles is immune to fatigue ?

   (A) Striped muscle   (B) Unstriped muscle

   (C) Cardiac muscle   (D) Voluntary muscle

5. When the temperature increases, the conductivity of a conductor :

   (A) increases   (B) decreases

   (C) remains constant   (D) none of the above

6. Jaldapara National Park is situated in :

   (A) Assam   (B) West Bengal   (C) Odisha   (D) Bihar

7. The bond between carbon atoms in Diamond is :

   (A) metallic bond   (B) ionic bond

   (C) covalent bond   (D) Vander waals bond

8. Full form of NHRC is :
   (A) National Highway Roads Corporation
   (B) National Human Rights Commission
   (C) National Health Rights Commission
   (D) None of the above

9. Which of the following places does **not** have Railway Production Units ?
   (A) Bhopal   (B) Kapurthala   (C) Perambur   (D) Hyderabad

10. Which one of the following common devices works on the basis of the principle of mutual induction ?
    (A) Tubelight   (B) Transformer   (C) LED   (D) Photodiode

11. The Electromagnetic waves used in RADAR are :
    (A) Radio waves   (B) Micro waves   (C) X - rays   (D) γ - rays

12. Granite is classified under :
    (A) Metamorphic rocks   (B) Sedimentary rocks
    (C) Igneous rocks   (D) None of the above

13. A sum of money is divided among A, B, C in such a way that 5 times A's share, 3 times B's share and 2 times C's share are equal. The ratio between the share of A, B, C is :
    (A) 5 : 3 : 2   (B) 2 : 2 : 5   (C) 15 : 10 : 6   (D) 6 : 10 : 15

14. Who was the most able ruler of Pala dynasty ?
    (A) Dhoolipala   (B) Rajapala   (C) Dharmapala   (D) Devapala

15. A certain sum of money amounts to ₹ 756 in 2 years and ₹ 873 in $3\frac{1}{2}$ years. Find the sum and the rate of interest. (Simple interest)
    (A) ₹ 500 and interest rate 13% p.a
    (B) ₹ 600 and interest rate 13% p.a
    (C) ₹ 600 and interest rate 12% p.a
    (D) ₹ 500 and interest rate 12% p.a

16. Simsha, Hemavathi and Arkavati are the tributaries of which of the following rivers ?

(A) Tapti   (B) Tungabhadra   (C) Kaveri   (D) Krishna

17. The famous Kailash Temple is built by :

(A) Guptas   (B) Cholas

(C) Sathavahanas   (D) None of the above

18. Which is an ore of potassium ?

(A) Carnallite   (B) Cryolite   (C) Bauxite   (D) Dolomite

19. When light is reflected, which of the following does **not** change ?

(A) Frequency   (B) Wavelength   (C) Amplitude   (D) Velocity

20. What is the symbol of chemical element "Copper" ?

(A) C   (B) Co   (C) Cu   (D) Cr

21. Which of the following soils is also known as black soil ?

(A) Tundra soil   (B) Chernozem soil   (C) Prairie soil   (D) Laterite soil

22. Ascaris is commonly known as :

(A) Pin worm   (B) Thread worm   (C) Round worm   (D) Glow worm

23. $(2668 \div 23) + (2835 \div 27) + (3781 \div 19) =$

(A) 440   (B) 430   (C) 420   (D) 410

24. Who among the following is well known as a sports person in shooting ?

(A) Shikha Tandon   (B) Soudaminee Gavankar

(C) Arjun Muralidharan   (D) Rehan Poncha

25. The red colour of ripe tomatoes is due to the presence of :

(A) Chlorophyll   (B) Carotenoids   (C) Vitamins   (D) Hormones

26. Mud houses are cooler in summer and warmer in winter as compared to brick houses because :

(A) Mud is good conductor

(B) Mud is bad conductor

(C) Evaporation of water causes cooling in summers and sunlight coming through holes causing warming in winter

(D) None of the above

27. Full form of SAIL is :

(A) State Authority of India Limited (B) Sea Authority of India Limited

(C) Steel Authority of India Limited (D) None of the above

28. Which of the following crops would be preferred for sowing in order to enrich the soil with nitrogen ?

(A) Wheat (B) Mustard (C) Sunflower (D) Gram

29. Contact lenses are made from :

(A) Polyvinyl chloride (B) Polystyrene

(C) Teflon (D) Lucite

30. The nucleus of a hydrogen atom consists of :

(A) one proton + one neutron (B) one proton + two neutrons

(C) one neutron only (D) one electron only

31. Who among the following acted as the Constitutional Advisor to the Constituent Assembly ?

(A) V.P. Menon (B) Dr. Rajendra Prasad

(C) B.N. Rao (D) Dr. Sachitananda Sinha

32. The National River Conservation Directorate is under :

(A) Ministry of Agriculture (B) Ministry of Environment and Forests

(C) Ministry of Earth Sciences (D) Ministry of Water Resources

33. Which of the following is the duration of the Eleventh Five year plan ?

     (A)   2008 - 2012   (B)   2009 - 2013   (C)   2007 - 2012   (D)   2006 - 2011

34. A person can swim at the rate of 5 kmph upstream and 13 kmph downstream. Find the time taken by him to swim 10 metres in still water.

     (A)   10 seconds   (B)   8 seconds   (C)   6 seconds   (D)   4 seconds

35. Which one among the following parts of castor seed yields oil ?

     (A)   Nucellus   (B)   Caruncle   (C)   Endosperm   (D)   Cotyledon

36. Who invented Black Box Flight Recorder ?

     (A)   Robert Stephenson   (B)   John Shorthand

     (C)   David Warren   (D)   David Robinson

37. Which of the following can impose reasonable restrictions on the fundamental rights of the Indian citizen ?

     (A)   Supreme Court

     (B)   Parliament

     (C)   President on the advice of the council of ministers

     (D)   None of the above

38. Supersonic planes fly with the speed :

     (A)   less than the speed of sound   (B)   of sound

     (C)   greater than the speed of sound   (D)   of light

39. Harshacharita was written by :

     (A)   Kalidasa   (B)   Banabhatta   (C)   Vishnu Gupta   (D)   Parimal Gupta

40. Which one of the following European countries has the maximum number of running nuclear reactors ?

     (A)   Germany   (B)   Switzerland   (C)   France   (D)   Norway

41. Red blood corpuscles are formed in the :

    (A) Liver   (B) Bone marrow   (C) Kidney   (D) Heart

42. The average age of a class of 39 students is 15 years. If the age of the teacher is included, then the average increases by 3 months. Find the age of the teacher.

    (A) 45 years   (B) 35 years   (C) 25 years   (D) 15 years

43. Serena Williams is the top ranked player of which sports ?

    (A) Chess   (B) Badminton   (C) Tennis   (D) Table Tennis

44. Among the following, which one is **not** an ape ?

    (A) Gibbon   (B) Uranguton   (C) Gorilla   (D) Langur

45. The Raman effect is used in the study of :

    (A) X - rays   (B) Cells

    (C) Chromosomes   (D) Molecular energy

46. Central Agricultural Research Institute is in :

    (A) Chandigarh   (B) Vishakhapatnam

    (C) Port Blair   (D) Tiruvanantapuram

47. Which of the following instruments is used to measure pressure of gases ?

    (A) Barometer   (B) Manometer

    (C) Ammeter   (D) None of the above

48. Which of the following is natural satellite of Mars ?

    (A) Ajo   (B) Phobos   (C) Callisto   (D) Miranda

49. Plants developing in dry condition are :

    (A) Xerophytes   (B) Mesophytes   (C) Lithophytes   (D) Hydrophytes

50. Water-gas is a mixture of :

(A) $H_2 + CO$ (B) $H_2 + CO_2$ (C) $CO + CO_2$ (D) $CO + CO_2 + H_2$

51. $5553214 + 4321069 + 3456712 + 4600032 - 310601 - 3999999 =$

(A) 14630427   (B) 13630427   (C) 14620427   (D) 13620427

52. $[0.56 \div 1.12] + [2.73 \div 2.1] + [1.21 \div 1.1] =$

(A) 2.6   (B) 2.7   (C) 2.8   (D) 2.9

53. Drugs which act on blood circulation are :

(A) cardio - vascular   (B) antibodies

(C) vitamins   (D) hormones

54. Which of the following chemicals is used in photograph ?

(A) Aluminium hydroxide   (B) Silver bromide

(C) Potassium nitrate   (D) Sodium chloride

55. Which of the fruit juices contain potassium hydrogen tartrate ?

(A) Apple   (B) Grape   (C) Mango   (D) Banana

56. Which of the following has triple bond ?

(A) I_2 (B) F_2 (C) N_2 (D) Br_2

57. Where is the Headquarters of Animal Welfare Board of India located ?

(A) Ahmedabad   (B) Chennai   (C) Hyderabad   (D) Kolkata

58. A refrigerator :

(A) Changes heat into cold

(B) Produces cold

(C) Causes thermal energy to disappear

(D) Removes thermal energy from inside the refrigerator

59. $11.0 \times 1.01 \times 10.01 =$

(A) 110.020   (B) 110.0020   (C) 111.2111   (D) 110.0012

60. A transformer works on :

(A) A.C.   (B) D.C.   (C) Dry Cell   (D) Voltameter

61. 15 years hence, a man will be just 2 times as old he was five years ago. His present age is :

(A) 35 years   (B) 50 years

(C) 25 years   (D) None of the above

62. Bauxite is the ore of :

(A) Zinc   (B) Lead   (C) Aluminium   (D) Iron

63. Bandipur National Park is known for :

(A) Tigers   (B) Elephants   (C) Bisons   (D) All of these

64. The book 'Shakuntala" was written by :

(A) Maithili Sharan Gupta   (B) Swami Dayanand

(C) Kalidas   (D) Tulsidas

65. 'Earn while you learn' scheme has been launched by :

(A) Ministry of Tourism   (B) Ministry of Youth

(C) Both (A) and (B)   (D) None of the above

66. From a container having pure milk, 10% is replaced by water. This process was repeated thrice. At the time of third operation, the milk remained in container is :

(A) 70% pure   (B) 90% pure   (C) 80% pure   (D) 72.90% pure

67. Marsh-gas mainly contains :

(A) C_2H_2 (B) CH_4 (C) H_2S (D) CO

68. $0.9 + 1001.0 + 0.9876 + 10.01 + 0.0009 - 001.0109 - 101.10009 =$

(A) 901.78751   (B) 910.77851   (C) 910.78751   (D) 910.7875

69. Truck farming is associated with :

(A) Vegetables (B) Milk (C) Cereals (D) All of these

70. The cost price of an article is 80% of its marked price. The dealer allows 15% discount on the marked price. Find the gain percentage.

(A) 25% (B) 10% (C) $6\frac{1}{4}$ % (D) $8\frac{1}{2}$ %

71. A train passes a man standing on the platform. If the train is 170 metres long and its speed is 72 km per hour, how much time it took in doing so ?

(A) $10\frac{1}{2}$ seconds (B) $9\frac{1}{2}$ seconds (C) $8\frac{3}{4}$ seconds (D) $8\frac{1}{2}$ seconds

72. When did Vasco-da-Gama come to India ?

(A) 1492 (B) 1498 (C) 1398 (D) 1542

73. Which of the following is **not** a diamagnetic substance ?

(A) Air (B) Water (C) Iron (D) Bismuth

74. Mendeleef's periodic table is based on :

(A) Atomic weight (B) Atomic number
(C) Atomic radius (D) Atomic volume

75. As per 2011 census, the number of females for every 1000 male is :

(A) 923 (B) 940 (C) 933 (D) 936

76. 1296, 216, _?_ 6.

(A) 12 (B) 18 (C) 24 (D) 36

77. The correct proportion of gases in the atmosphere in descending order is :

  (A) Nitrogen, Carbon dioxide and Oxygen

  (B) Nitrogen, Oxygen and Carbon dioxide

  (C) Carbon dioxide, Nitrogen and Oxygen

  (D) Carbon dioxide, Oxygen and Nitrogen

78. 'X' can do a piece of work in 25 days. 'Y' can do it in 20 days. They work together for 5 days and then 'X' goes away. In how many days will 'Y' finish the remaining work ?

  (A) 11 days   (B) 10 days

  (C) 20 days   (D) None of the above

79. The Tenth Schedule of the constitution of India contains :

  (A) Anti - Defection Law   (B) Emergency Provisions

  (C) Hindu Code Bill   (D) Zamindari Act

80. Which one of the following layers of the atmosphere contains water vapour and dust particles ?

  (A) Ionosphere   (B) Mesosphere   (C) Stratosphere   (D) Troposphere

81. A complete protein is :

  (A) meat   (B) milk   (C) egg   (D) al!

82. What kind of energy is stored in a dry cell ?

  (A) Mechanical   (B) Electrical   (C) Chemical   (D) Heat

83. The average salinity of the sea water is about :

  (A) 35%   (B) 25%

  (C) 32%   (D) None of the above

84. Full form of IVR is :

  (A) Immediate Voice Response   (B) Instant Voice Response

  (C) Interactive Voice Response   (D) None of the above

85. Fats and their derivatives occurring in living systems are collectively known as :

    (A) Carbohydrates   (B) Proteins   (C) Lipids   (D) Vitamins

86. $172 \times 19 \times 4 \div 10 =$

    (A) 1307.20   (B) 1306.20   (C) 1305.20   (D) 1304.20

87. $\left[2\frac{1}{4} \div \frac{1}{4}\right] + \left[5\frac{2}{3} \div \frac{17}{13}\right] - \left[3\frac{1}{3} \times \frac{6}{5}\right] =$

    (A) 14   (B) 6   (C) $\frac{1}{6}$ (D) $\frac{1}{14}$

88. Temperature decreases with increasing height at the rate of :

    (A) 8° per 1000 m   (B) 2° per 1000 m   (C) 6.5° per 1000 m   (D) 10.5° per 1000 m

89. The process of extracting metals from their ores is called :

    (A) metallurgy   (B) meteorology   (C) metrology   (D) metallography

90. In India perty soil is mostly found in :

    (A) Bihar   (B) Odisha   (C) Kerala   (D) Gujarat

91. How many members of Raj Sabha retire after every two years ?

    (A) One - third   (B) One - half   (C) Two - third   (D) Three - fourth

92. Electromagnetic waves transport :

    (A) Charge   (B) Frequency   (C) Wavelength   (D) Energy

93. Units of magnetisation are :

    (A) A - m   (B) A - m^2 (C) A/m   (D) A/m^2

94. The largest Indian glacier i.e. Siachen occur in :

    (A) Ladakh range   (B) Karakoram range

    (C) Sulaiman range   (D) Hindu kush range

95. Ozone depletion is mainly caused by :

(A) Carbon dioxide

(B) Chlorofluoro carbons

(C) Carbon monoxide

(D) None of the above

96. Which one of the following is known as the convective region of the atmosphere ?

(A) Ionosphere   (B) Ozonosphere   (C) Stratosphere   (D) Troposphere

97. $3\frac{1}{3} - 1\frac{2}{4} + 2\frac{2}{6} + \frac{3}{6} =$

(A) $4\frac{3}{2}$ (B) $3\frac{3}{2}$ (C) $3\frac{2}{3}$ (D) $4\frac{2}{3}$

98. $2\frac{2}{4} \times 3\frac{1}{5} \times 10\frac{4}{2} \times \frac{1}{16} =$

(A) 3   (B) 4   (C) 5   (D) 6

99. Full form of FICCI is :

(A) Federation of Indian Chamber of Commerce and Industry

(B) Federation of Indian Chamber of Companies and Industries

(C) Federation of Indian Chamber of Corporations and Industry

(D) None of the above

100. The second largest river basin in India is that of :

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

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