South Central Railway Recruitment Cell
Group –D Exam (English) Held on 16-11-2014

DO NOT REMOVE THIS SHEET / इस शीट को न फाड़ें

Duration : (1½ Hours / 90 Minutes) समय : (1½ घंटे / 90 मिनट)	Exam Code : परीक्षा कोड : **1461**
No. of Pages / पृष्ठों की संख्या : **88**	Question Booklet No. : प्रश्न-पुस्तिका संख्या : **5029792**
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।

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	Pages/पृष्ठ 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 : One should always remember that "to be a better person in life and to get success one has to work hard. The result of hard work is always fruitful. Today's world is a competitive world. Everyone here wants to be famous and wants success in his life. To achieve goal every one should plan their actions, organise and implement. Though it appears difficult initially, in practice it will become easier.

SECTION - I

ENGLISH

1. $55.005 + 0.0155 + 5055.05555 + 50.150 - 59.91319 - 5100.31286 =$

    (A) 5110.31286   (B) 5100.31286

    (C) 5100.3128   (D) None of the above

2. Which type of plastic is used in making pipes ?

    (A) Nylon 66   (B) Polyethylene

    (C) Poly vinyl chloride   (D) Polyester

3. Which type of cell division occurs in cancer cells ?

    (A) mitosis   (B) meiosis

    (C) both (A) and (B)   (D) cell division does not occur

4. Central Institute of Fisheries Technology is in :

    (A) Vishakhapatnam   (B) Mumbai

    (C) Cochin   (D) Kolkata

5. Refractive Index is the highest for :

    (A) Plastic   (B) Glass   (C) Water   (D) Diamond

6. What is the symbol of chemical element 'TIN' ?

    (A) T   (B) Ti   (C) S   (D) Sn

7. In Computer Technology, what does MB stands ?

    (A) Macro bites   (B) Mela bites   (C) Mega bites   (D) Micro bites

8. 'SAL' trees are concentrated in :

    (A) Gujarat   (B) Assam   (C) Bihar   (D) Madhya Pradesh

9. In which of the following states is Kakrapar nuclear power station located ?

   (A) Karnataka (B) Tamil Nadu (C) Maharashtra (D) Gujarat

10. Who coined the term Horse power ?

   (A) Alexander Fleming (B) S.C. Bose
   (C) James Watt (D) Issac Newton

11. The subject matter of Ajanta painting pertains to :

   (A) Jainism (B) Buddhism (C) Vaishnavism (D) Shaivism

12. Micro nutrients are :

   (A) iron, fat (B) molybdenum, proteins
   (C) fats, vitamins (D) iron, fluorine

13. $4009900 + 3991199 + 5010101 - 1099877 - 6199879 =$

   (A) 12011323 (B) 5711444 (C) 5911444 (D) 5744411

14. In which of the following hills is tea cultivated ?

   (A) Maikala Hills (B) Nallamalai Hills
   (C) Nilgiri Hills (D) Shivalik Hills

15. In which one of the following cities, the Global Automative Research Centre is set up ?

   (A) Chennai (B) Hyderabad (C) Pune (D) Gurgaon

16. In 1921, the Presidency Banks of Bengal, Madras and Bombay were nationalised to give birth to :

   (A) Punjab National Bank (B) Syndicate Bank
   (C) State Bank of India (D) Punjab and Sind Bank

17. A galvanometer detects :

   (A) Resistance (B) Energy (C) Current (D) Heat

18. DDT was least effective in combating :

   (A) Mosquitoes

   (B) Rodents

   (C) Beetles

   (D) Defoliating insects such as the spruce budworm

19. Which of the following waves cannot be polarized ?

   (A) X-rays   (B) Radio waves   (C) Visible light   (D) Sound waves

20. Kolar is related to which of the following minerals :

   (A) Gold   (B) Iron   (C) Coal   (D) Mica

21. The study of fresh water habitant is known as :

   (A) Marine Ecology   (B) Limnology

   (C) Hydrology   (D) Philology

22. Who defined the law of gravitation ?

   (A) Newton   (B) Archimedes   (C) Galilio   (D) Faraday

23. The Olympic Association of India gets its grants from :

   (A) International Olympic Association

   (B) Asian Olympic Association

   (C) Sports Authority of India

   (D) The countries where Olympic games were held

24. Which gland in human body is called the master gland ?

   (A) Pancreas   (B) Thyroid   (C) Pituitary   (D) Spleen

25. From which plant "Turpentine Oil" is extracted ?

   (A) Pinus   (B) Fern   (C) Sunflower   (D) Moss

26. Bond angle in water molecule is :

(A) 104°   (B) 90°   (C) 120°   (D) 180°

27. All the planets have one or more satellites except :

(A) Mercury and Venus   (B) Neptune and Saturn

(C) Pluto and Jupiter   (D) Mars and Uranus

28. To an astronaut, the outer space appears :

(A) White   (B) Black   (C) Deep Blue   (D) Crimson

29. Who gave the slogan, 'Jai Hind' to the nation ?

(A) Sardar Vallabhbhai Patel   (B) Subhash Chandra Bose

(C) Dr. Rajendra Prasad   (D) Motilal Nehru

30. Full form of PDS is :

(A) Public Distribution System   (B) Power Distribution System

(C) Production Distribution System   (D) None of the above

31. What is the official language of Meghalaya ?

(A) Hindi   (B) Urdu   (C) English   (D) Konkani

32. Full form of IIIT is :

(A) Indian Institute of Information Technology

(B) International Institute of Information Technology

(C) Indian Institute of Infrastructure Technology

(D) None of the above

33. $\left[8\frac{1}{8} \times 3\frac{1}{5}\right] + \left[4\frac{3}{5} \div 9\frac{1}{5}\right] - \left[3\frac{3}{6} \div 3\frac{1}{2}\right] =$

(A) $14\frac{1}{2}$ (B) $26\frac{1}{2}$ (C) $12\frac{1}{2}$ (D) $25\frac{1}{2}$

34. The General Budget is presented in the parliament normally in the month of :

    (A) January   (B) February   (C) March   (D) December

35. Who appoints the Judges of various High Courts of India ?

    (A) Prime Minister   (B) President

    (C) Chief Justice of India   (D) Union Law Minister

36. The Chilka and Pulicat lakes on the eastern coast of India are examples of :

    (A) Fresh water lakes   (B) Lagoons

    (C) Inland salt water lakes   (D) Drowned lakes

37. Full form of LCD is :

    (A) Light Crystal Display   (B) Liquid Crystal Display

    (C) Limited Crystal Display   (D) None of the above

38. Badminton is the national sport of :

    (A) Malaysia   (B) China   (C) Scotland   (D) England

39. Which of the following places is **not** associated with cricket ?

    (A) Old Trafford   (B) Eden Gardens

    (C) Merdeka Stadium   (D) Melbourne

40. Who was the first person to be awarded the Bharat Ratna Posthumously ?

    (A) Lal Bahadur Shastri   (B) Motilal Nehru

    (C) Jawaharlal Nehru   (D) Babasaheb Ambedkar

41. Which of the following has the authority to constitute an area into a municipality or municipal corporation or a panchayat ?

    (A) Central Government   (B) Divisional Commissioner

    (C) District Collector   (D) State Government

42. The rate of respiration per minute in a new born child is :

(A) 18 times   (B) 32 times   (C) 26 times   (D) 16 times

43. 2, 10, 40, _   240, 240

(A) 140   (B) 130   (C) 100   (D) 120

44. The average height of the students in a class of 10 is 105 cm. If 20 more students with an average height of 120 cm join the class, what will be the average height of all students ?

(A) 105 cm   (B) 110 cm   (C) 112 cm   (D) 115 cm

45. The colour of the ozone layer is :

(A) light blue   (B) light green   (C) light yellow   (D) light orange

46. Semiconductor devices are dependent on :

(A) Current   (B) Voltage   (C) Temperature   (D) All the above

47. Who among the following invented movies projector ?

(A) Alexander Graham Bell   (B) Benjamin Franklin

(C) J.L. Bird   (D) Thomas Edison

48. The study of X-Ray and Radioactivity is called :

(A) Radiology   (B) Radiobiology   (C) Rheology (D) None of the above

49. Which of the following is the sweetest sugar ?

(A) Sucrose   (B) Glucose   (C) Fructose   (D) Maltose

50. NABARD was established on the recommendations of :

(A) Public Accounts Committee   (B) Shivaraman Committee

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

51. The project 'Sankalp' is associated with :

(A) Polio   (B) AIDS, HIV

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

52. Boyle's Law is applicable at :

   (A) Constant volume

   (B) Constant temperature

   (C) Constant temperature and volume

   (D) Constant pressure and volume

53. Who among the following served as the Chief Economist of the International Monetary Fund ?

   (A) Ashok Lahiri （B) Sumantra Ghoshal

   (C) Saumitra Chaudhuri （D) Raghuram Rajan

54. $[4.94 \div 2.6] \times [2.56 \div 1.6] =$

   (A) 3.03 （B) 3.04 （C) 3.05 （D) 3.06

55. A person purchased 3 oranges for ₹ 5 and sold them at the rate of 2 for ₹ 4. His profit is :

   (A) 10% （B) 15% （C) 20% （D) 25%

56. The Headquarters of North Western Railway is :

   (A) Hubli （B) Mumbai （C) Jaipur （D) Delhi

57. The ratio between present ages of Suman and Somu is 2 : 1. If Suman was 15 years older to Somu 8 years back, how old is Somu now ?

   (A) 15 years （B) 30 years （C) 22 years （D) None of the above

58. 20 litres of a mixture contains milk and water in the ratio 5 : 3. If 4 litres of this mixture is replaced by 4 litres of milk, then the ratio of milk and water in the new mixture is :

   (A) 2 : 3 （B) 4 : 3 （C) 5 : 3 （D) 7 : 3

59. Which of the following is the oldest Trade Union organisation in India ?

   (A) INTUC （B) CITUC （C) AITUC （D) BMS

60. Soft drinks such as colas contain :

(A) Caffeine   (B) Nicotine   (C) Tannin   (D) Renin

61. What are those smaller rivers that flow into a large main river called ?

(A) Feeders   (B) Streams   (C) Tributaries   (D) Rivulets

62. India became a member of the United Nations in the year :

(A) 1945   (B) 1946   (C) 1947   (D) 1948

63. Golden Globe Awards are given in the field of :

(A) Science   (B) Sports   (C) Literature   (D) Motion picture

64. When the light is passed through a prism, the colour which deviates the least is :

(A) Red   (B) Green   (C) Violet   (D) Blue

65. Which of the following types of radiation does not originate within the nucleus ?

(A) Alpha   (B) Beta   (C) Gamma   (D) X-rays

66. $5.5 \times 0.5 \times 50.0 \times 4 =$

(A) 550.0   (B) 1000.100   (C) 1000.25   (D) None of the above

67. The crystal of diamond shines due to :

(A) High density   (B) Total internal reflection
(C) Crystal lattice   (D) None of the above

68. The element which is both very hard and very soft is :

(A) Tin   (B) Sulphur   (C) Phosphorus   (D) Carbon

69. In railway tracks, a small gap is left between the rails :

(A) To allow for the expansion due to heat

(B) To save the cost of metal

(C) To permit the shrinkage of metal

(D) None of the above

70. Indira Nooyi is related to which of the following Industrial Units ?

    (A)   Pepsi   (B)   Airtel   (C)   Reliance   (D)   Hero Honda

71. Two trains running in opposite directions at 36 kmph and 45 kmph cross each other in 20 seconds. If one train is 200 m long, the length of the other train is :

    (A)   144 m   (B)   200 m   (C)   240 m   (D)   250 m

72. Which of the following properties of soaps and detergents help to remove dirt from clothes ?

    (A)   Capillary Action   (B)   Interfacial Torsion

    (C)   Osmosis   (D)   None of the above

73. 'A' sweeps 900 m long road in 3 hours. 'B' sweeps $\frac{2}{3}$rd of the road in 100 minutes. Who sweeps more speedily ?

    (A)   A sweeps speedily   (B)   B sweeps speedily

    (C)   A and B take equal time   (D)   None of the above is correct

74. In which country were the first modern Olympic Games held ?

    (A)   UK   (B)   Greece   (C)   France   (D)   USA

75. Which of the following is environment friendly fuel ?

    (A)   Kerosene oil   (B)   Petrol   (C)   Diesel oil   (D)   CNG

76. Non-stick kitchenware are coated with :

    (A)   PVC   (B)   Graphite   (C)   Teflon   (D)   Silicon

77. Amphibious animal is :

    (A)   Lizard   (B)   Mosquito   (C)   Frog   (D)   Cockroach

78. $8\frac{1}{3} \times \frac{20}{5} \times 2\frac{3}{4} \times \frac{3}{11} =$

    (A)   23   (B)   24   (C)   25   (D)   26

79. Dr. B.C. Roy trophy is related to :

(A) Hockey (B) Cricket (C) Football (D) Polo

80. Ramu borrowed ₹ 35,000 from Somu. A part of this sum is borrowed at 10% simple interest per annum for 4 years. Remaining part is borrowed at 11% simple interest for $4\frac{1}{2}$ years. If the total interest earned by Somu is ₹ 15,900, then find the sum borrowed by Ramu at each rate respectively.

(A) ₹ 15,000 and ₹ 20,000 (B) ₹ 20,000 and ₹ 15,000

(C) ₹ 10,000 and ₹ 15,000 (D) ₹ 15,000 and ₹ 10,000

81. $(12831 \div 21) - (5076 \div 12) - (1467 \div 9) =$

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

82. Transmitting antenna transmits :

(A) Sound waves (B) Light waves

(C) Modulated waves (D) Both sound and light waves

83. The Government of India Act 1919 was known as :

(A) Morley - minto reforms (B) Wavell reforms

(C) Mont - ford reforms (D) Mountbatten reforms

84. The major sea port of malabar coast is :

(A) Chennai (B) Cochin (C) Kolkata (D) Tuticorin

85. Frequency of a vibrating body may be expressed in :

(A) Hz (B) Cycles per second

(C) s^{-1} (D) All the above

86. The country that enjoys the socialist economics system is :

(A) USA (B) UK (C) India (D) China

87. The element which has no second ionization energy is :

    (A) Neon   (B) Helium   (C) Hydrogen   (D) Lithium

88. What is the name of Magesthene's book ?

    (A) Arthashastra   (B) Panchatantra   (C) Indiana   (D) Indica

89. In which year was IDBI delinked from RBI and made autonomous co-operation ?

    (A) 1967   (B) 1970   (C) 1973   (D) 1976

90. Sundra Trench is situated in the :

    (A) Indian Ocean   (B) Atlantic Ocean   (C) Pacific Ocean   (D) Arctic Ocean

91. In a partnership business, 'A' invested ₹ 10,000, 'B' invested ₹ 15,000. After 3 months, 'B' withdrew from the business and 'C' joined by investing ₹ 12,000. At the end of the year, the total profit is ₹ 91,000. Find the share of A, B and C in the profit respectively.

    (A) ₹ 36,000, ₹ 15,000, ₹ 40,000   (B) ₹ 15,000, ₹ 40,000, ₹ 36,000

    (C) ₹ 40,000, ₹ 15,000, ₹ 36,000   (D) None of the above

92. A man rows upstream a distance of 9 km or downstream a distance of 18 km taking 3 hours each time. Find the speed of the boat in still water.

    (A) 4.5 kmph   (B) 5.5 kmph   (C) 6.5 kmph   (D) 3.5 kmph

93. Total salt content in blood is about :

    (A) 1.85% to 1.9%   (B) 11.85% to 11.9%

    (C) 2.85% to 2.9%   (D) 0.85% to 0.9%

94. An article is sold at a gain of 16%. If it had been sold for ₹ 10 more, 20% would have been gained. Find the cost price of the article.

    (A) ₹ 245   (B) ₹ 250   (C) ₹ 330   (D) ₹ 260

95. $156 \times 9 \times 4 \div 3 =$

    (A) 1772   (B) 1872   (C) 1972   (D) 1672

96. What is the Atomic Number of Aluminium ?

    (A) 11   (B) 12   (C) 13   (D) 4

97. A missile when projected into the air, it follows a/an :

    (A) Elliptical path   (B) Straight line path

    (C) Parabolic path   (D) Hyperbolic path

98. Entropy is a measure of :

    (A) Internal Energy   (B) Total Energy   (C) Disorder   (D) Enthalpy

99. $4\frac{2}{4} + 4\frac{4}{8} + 4\frac{6}{12} - 4\frac{1}{2} =$

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

100. The name Raja Chelliah is associated with :

    (A) Tax reforms   (B) Labour Policy reforms

    (C) Foreign Trade Policy reforms   (D) Liberalization Policy reforms

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