

DO NOT REMOVE THIS SHEET / इस शीट को न फाड़ें

Duration : (1½ Hours / 90 Minutes) समय : (1½ घंटे / 90 मिनट)		Exam Code : परीक्षा कोड :		1481	
No. of Pages / पृष्ठों की संख्या : 88		Question Booklet No. : प्रश्न-पुस्तिका संख्या :		7020268	
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 : You do not come across success just by hoping for it. To achieve true success, you need the strength of mind and body to struggle and work hard to reach your fullest potential. You need, the right attitude, self-discipline and the ability to put your goal before your own needs, if you are really driven towards reaching success.

SECTION - I
ENGLISH

1. Full form of POET is :
(A) Passenger Operated Enquiry Terminal
(B) Public Operated Enquiry Terminal
(C) Passenger Opted Enquiry Terminal
(D) None of the above

2. The outer membrane that covers the brain is :
(A) Myelin Sheath (B) Dura mater
(C) Arachnoid membrane (D) Pia mater

3. Two trains 121 metres and 165 metres in length respectively are running in opposite directions, one at the rate of 80 kms and the other at the rate of 64 kms an hour. In what time they will be completely clear of each other from the moment they meet ?
(A) 7 seconds (B) 8.12 seconds (C) 7.25 seconds (D) 7.15 seconds

4. The study of pollen grains is :
(A) Ornithology (B) Zoology (C) Geology (D) Polynology

5. $\left[\frac{4}{8} \div \frac{24}{16}\right] \times \left[\frac{3}{5} \div \frac{15}{25}\right] \times \left[\frac{30}{10}\right] =$
(A) Zero (B) 1
(C) $\frac{1}{3}$ (D) None of the above

6. The Mughal Empire extended upto Tamil Territory in South under the reign of :
(A) Akbar (B) Aurangzeb (C) Jahangir (D) Shahjahan

7. $5\frac{1}{5} + 3\frac{2}{6} + 4\frac{2}{3} + 4\frac{1}{4} + 3\frac{2}{3} =$
(A) $21\frac{60}{7}$ (B) $20\frac{60}{7}$ (C) $21\frac{7}{60}$ (D) $20\frac{7}{60}$

8. Red rot of sugarcane is caused by :
(A) Bacteria (B) Fungus (C) Virus (D) Nematode
9. The instrument used to measure potential difference between two points is called :
(A) Galvanometer (B) Voltmeter (C) Ammeter (D) Sherometer
10. The process of changing oils into fats by passing hydrogen gas is called :
(A) Saponification (B) Oxidation (C) Carbonation (D) Hydrogenation
11. Which of the following gives the shape of orbit ?
(A) Principal quantum number (B) Azimuthal quantum number
(C) Magnetic quantum number (D) Spin quantum number
12. 'Gulliver's Travels' was written by :
(A) Jonathan Swift (B) James Fraser (C) John Gunther (D) Sir Walter Scott
13. Aam Admi Bima Yojana is an insurance scheme for rural landless households introduced by :
(A) LIC (B) UTI (C) ICICI (D) None of these
14. What is the main purpose of white blood corpuscles ?
(A) To carry nutrients (B) To combat infection
(C) To carry oxygen (D) To give strength
15. The fibre, least prone to catch fire is :
(A) Nylon (B) Polyester (C) Cotton (D) Terylene
16. Who is the present RBI Governor ?
(A) D. Subba Rao (B) Y.B. Reddy
(C) Arun Ramanathan (D) Raghuram Rajan

17. The highest body that approves Five Year Plans in India is :
- (A) Planning Commission (B) National Development Council
(C) Inter-State Council (D) Union Cabinet
18. Which of the following is not an ore of copper ?
- (A) Cuprite (B) Malachite
(C) Chalchocite (D) None of the above
19. $(3.74 \div 1.7) + (3.48 \div 1.2) - (3.52 \div 1.1) =$
- (A) 1.6 (B) 1.7 (C) 1.8 (D) 1.9
20. Which of the following is the duration of the Seventh Five Year Plan ?
- (A) 1974 - 1979 (B) 1985 - 1990 (C) 1992 - 1997 (D) 1997 - 2002
21. Which one of the following is not a football tournament ?
- (A) I - league (B) Irani Trophy (C) Bardoloi Trophy (D) Durand Cup
22. The purpose of Inclusion of Directive Principle of State Policy in Indian constitution is to establish :
- (A) Political democracy (B) Social democracy
(C) Gandhian democracy (D) Social and Economic democracy
23. $500.5 \times 10.1 \times 0.25 \times 0.1 =$
- (A) 5000.0125 (B) 5000.00125 (C) 5000.125 (D) 126.262625
24. Which following Articles in the Constitution deals with the village panchayats ?
- (A) Article 30 (B) Article 40 (C) Article 43 (D) Article 45
25. More photo synthetic activity occurs in _____ part of the leaf.
- (A) lower (B) middle (C) upper (D) none of the above

26. A man purchased six dozens eggs for ₹ 360. Later he found that 12 eggs were rotten. He sold the remaining eggs at the rate of 5 for ₹ 35. Find the percentage of profit.
- (A) 60% (B) 16%
(C) $16\frac{4}{6}\%$ (D) None of the above
27. For the first time, which sports event was included in the programme of 2012 London Olympics ?
- (A) Men's Boxing (B) Men's Karate
(C) Women's Karate (D) Women's Boxing
28. A and B invested in a business in the ratio of 3 : 2. If 2% of total profit goes to the charity and A's share is ₹ 7,056 in the remaining amount, then the total profit is :
- (A) ₹ 13,000 (B) ₹ 12,000
(C) ₹ 11,000 (D) None of the above
29. When milk turns sour, one of the products formed in the milk is :
- (A) Tartaric acid (B) Lactic acid (C) Citric acid (D) Gluconic acid
30. $9000001 - 3999909 - 1990992 + 991900 + 6999008 =$
- (A) 10000008 (B) 11900008 (C) 11000008 (D) 11100008
31. Which of the following is an indigenously built light combat aircraft of India ?
- (A) Akash (B) Vikrant (C) Tejas (D) Arjun
32. _____ are used in Telemetry.
- (A) Infrared spectrum (B) Microwaves
(C) Visible spectrum (D) Ultraviolet spectrum
33. Cosmic noise is caused by :
- (A) Lightning discharges (B) Solar eruptions
(C) Distant stars (D) Industrial discharges

34. Glass is :
(A) Crystalline solid (B) Super cooled liquid
(C) Liquid crystal (D) None of the above
35. The brightest colour emitted by the sun is :
(A) Violet (B) Yellow - Green (C) Green - Blue (D) Red
36. Stainless steel was invented by :
(A) Harry Brearley (B) Haffman (C) William Harvey (D) Henry Swan
37. The scientific principal behind a laser was first put forward by :
(A) Towers (B) Plank (C) Einstien (D) Maxwell
38. Panchayati Raj was first introduced in India in October 1959 in :
(A) Rajasthan (B) Tamil Nadu
(C) Kerala (D) Andhra Pradesh
39. Steel is more elastic than rubber because :
(A) Its density is high (B) It is a metal
(C) Ratio of stress to strain is more (D) Ratio of stress to strain is less
40. Full form of SMS is :
(A) Simple Messaging System (B) Short Messaging Service
(C) Short Messaging System (D) None of the above
41. Where did Mahavira attain Nirvana ?
(A) Pavapuri (B) Vaishali (C) Kumdalgram (D) Kapilvastu
42. The vitamin lost when rice is washed repeatedly is :
(A) B₁ (B) B₂ (C) B₆ (D) B₁₂

43. Which of the following is an example for diatomic molecule ?
(A) CO_2 (B) HCN (C) BeF_2 (D) Br_2
44. $11 \frac{2}{4} \times 5 \frac{7}{4} \times 5 \frac{1}{3} \times 2 \frac{1}{2} =$
(A) 1035 (B) 1034 (C) 1033 (D) 1032
45. The time for which a body remains in the air is called _____
(A) Time of ascent (B) Time of descent (C) Time of flight (D) Free time
46. Mangrove vegetation in India is most extensively found in :
(A) Malabar coast (B) Sunderbans
(C) Both (A) and (B) (D) The Rann of Kutch
47. When two gases are mixed, the entropy :
(A) remains constant (B) decreases
(C) increases (D) becomes zero
48. Which of the following whales can be easily trained because of its intelligence ?
(A) Porpoise (B) Sperm whale (C) Blue whale (D) Orcinus
49. Which of the following is an example of covalent compound ?
(A) Diamond (B) Sodium Chloride
(C) Iodine (D) Ice
50. $63 \times 121 \times 14 \div 100 =$
(A) 1067.22 (B) 1167.22 (C) 1267.22 (D) 1367.22
51. Full form of LTO is :
(A) Low Term Operations (B) Limited Term Operations
(C) Long Term Operations (D) None of the above

52. Gamma rays are :
- (A) High energy electrons (B) Low energy electrons
(C) High energy protons (D) High energy electro magnetic waves
53. Cracking is a process which belongs to ?
- (A) Soap manufacture (B) Petrol manufacture
(C) Glass manufacture (D) Cosmetic manufacture
54. When light is refracted, which of the following does not change ?
- (A) Frequency (B) Wavelength (C) Amplitude (D) Velocity
55. Raghbir Singh Memorial Cup is associated with :
- (A) Hockey (B) Kabaddi (C) Football (D) Horse racing
56. What is the symbol of chemical element 'Zinc' ?
- (A) Zc (B) Zn (C) Zi (D) Z
57. An example of semi-conductor is :
- (A) aluminium (B) silicon (C) plastic (D) copper
58. Full form of NMDC is :
- (A) National Mines Development Corporation
(B) National Mineral Development Corporation
(C) National Material Development Corporation
(D) None of the above
59. Who is the First Citizen of the city ?
- (A) Commissioner of City Police (B) Commissioner of City Corporation
(C) Judge of City Civil Court (D) Mayor of the city
60. With reference to educational degree, what does Ph.D stands for ?
- (A) Doctor of Philosophy (B) Diploma in Philosophy
(C) Degree in Philosophy (D) None of the above

61. ₹ 8,800 is divided among A, B, C so that A receives $\frac{3}{8}$ as much as B and C together receive. Then, what is the share of A ?
(A) ₹ 1,200 (B) ₹ 2,400 (C) ₹ 2,500 (D) ₹ 1,300
62. Resistance of conductor depends on :
(A) the material (B) its length (C) its cross section (D) all of these
63. Limas, a species of camel family, are found in :
(A) Africa (B) Australia (C) South America (D) North America
64. Which cells are destroyed in AIDS ?
(A) Monocytes (B) Neutrophils (C) Lymphocytes (D) R.B.C.
65. Enzymes are :
(A) vitamins (B) carboxylic acids (C) proteins (D) bases
66. Who is the author of the book "India A Million Mutinies Now" ?
(A) V.S. Naipaul (B) Mulk Raj Anand
(C) Nirad C. Chaudhuri (D) Amitav Ghosh
67. The average weight of 19 students is 15 kg. By the admission of a new student the average weight is reduced to 14.8 kg. The weight of new student is :
(A) 10.6 kg (B) 10.8 kg (C) 11 kg (D) 14.9 kg
68. The silver coating on the glass surfaces of a thermos bottle reduces the energy that is transferred by :
(A) Friction (B) Convection (C) Radiation (D) Conduction
69. What is the atomic number of chemical element 'Barium' ?
(A) 53 (B) 54 (C) 55 (D) 56

70. $201220.1202 + 2012.0002 + 21112.3565 - 99.9 - 0.112002 - 224244.164898 =$
(A) 0.1 (B) 0.2 (C) 0.3 (D) 0.4
71. The Central Information Commission was established in :
(A) 2000 (B) 2002 (C) 2005 (D) 2006
72. Who of the following was the first woman ruler of Medieval India ?
(A) Razia Sultana (B) Chand Bibi (C) Durgavati (D) Noorjahan
73. Veliconda Hills, which is a part of Eastern Ghats, is situated in ?
(A) Odisha (B) Tamil Nadu
(C) Karnataka (D) Andhra Pradesh
74. The ratio of present ages of two persons is 3 : 2 and 10 years back the ratio was 2 : 1. What will be the ratio of their ages after 5 years ?
(A) 4 : 3 (B) 7 : 5
(C) 5 : 2 (D) None of the above
75. Maitri, the second scientific station, is located at :
(A) Himalayas (B) Antarctica (C) Arctic Circle (D) Alps Mountains
76. How many Anglo - Indian members can the President nominate to the Lok Sabha ?
(A) Two (B) Three (C) Five (D) Ten
77. Heart attack is caused by the blocking of :
(A) Pulmonary artery (B) Coronary artery
(C) Coronary vein (D) Pulmonary vein
78. In eye donation, which of the following parts of doner's eye is utilised ?
(A) Iris (B) Lens (C) Cornea (D) Retina

79. Which of the following is a non-electrolyte ?
(A) Acetic acid (B) Sodium chloride
(C) Glucose (D) Sodium Hydroxide
80. Mc Dowell Cup is associated with :
(A) Cricket (B) Kabaddi (C) Basketball (D) Football
81. Which of the following human organs is less susceptible to harmful radiation ?
(A) Eyes (B) Heart (C) Brain (D) Lungs
82. 13 chambered heart occurs in :
(A) Leech (B) Earthworm (C) Snail (D) Cockroach
83. Which of the following is an in-situ tiger reserve in India ?
(A) Dudhwa (B) Gulf of Myanmar
(C) Western Ghats (D) Agasthya Malai
84. In which state is the Rajiv Gandhi National Institute of Youth Development located ?
(A) Tamil Nadu (B) Karnataka
(C) Himachal Pradesh (D) Uttarakhand
85. A shopkeeper marks an article 20% above the cost price but allows 20% discount. How much he loses on the article for which he charges ₹ 120 ?
(A) ₹ 5 (B) ₹ 50 (C) ₹ 25 (D) ₹ 20
86. The soil formed by wind dust in and around hot deserts is called :
(A) silty soil (B) loamy soil (C) sandy soil (D) loess soil
87. $(4774 \div 14) + (4608 \div 18) - (4745 \div 13) =$
(A) 231 (B) 232 (C) 233 (D) 234

88. The most reactive metals are :
- (A) Alkali metals (B) Inner transition metals
(C) Transition metals (D) Alkaline earth metals
89. Pulses are good source of :
- (A) Carbohydrates (B) Proteins
(C) Fats (D) Fats and carbohydrates
90. A person deposited ₹ 8,000 in a bank which amounted to ₹ 9,200 after 3 years at simple interest. Had the interest been 2% more, around how much he would have got ?
- (A) ₹ 9,680 (B) ₹ 9,860 (C) ₹ 9,380 (D) ₹ 9,800
91. The size of population in lower age group is large in countries where :
- (A) Birth rate is high (B) Birth rate is low
(C) Death rate is high (D) Death rate is low
92. 1024, _____, 64, 16, 4.
- (A) 254 (B) 236 (C) 256 (D) 244
93. P and Q can do one work in 40 days. P alone can do $\frac{1}{5}$ of work in 10 days. In how many days Q alone can complete that work ?
- (A) 100 days (B) 50 days
(C) 200 days (D) None of the above
94. Which of the following has high retentivity ?
- (A) Cu (B) Cr (C) Al (D) Steel
95. A boatman goes 2 km against the current of stream in 40 minutes and returns to the same spot in 30 minutes. What is his rate of rowing in still water ?
- (A) 2.5 km/hr (B) 3.0 km/hr
(C) 3.5 km/hr (D) None of the above

96. When does a body experience a centrifugal force ?
(A) When body moves in a circular path
(B) When body moves in a linear path
(C) When body is in vibration
(D) When body is in motion
97. Triple bond exists in :
(A) methane (B) ethane (C) butene (D) acetylene
98. Headquarters of World bank is at :
(A) Washington D.C. (B) New York
(C) Manila (D) Geneva
99. Which of the following religions is the last to appear on the scene of India ?
(A) Hinduism (B) Islam (C) Buddhism (D) Sikhism
100. Fluoride damages :
(A) Teeth (B) Eyes (C) Tongue (D) Ears