INSTRUCTIONS

1. IMMEDIATELY AFTER THE COMMENCEMENT OF THE EXAMINATION YOU SHOULD CHECK THAT THE TEST BOOKLET DOES NOT HAVE ANY UNPRINTED OR TORN OR MISSING PAGES OR ITEMS, ETC, IF SO, GET IT REPLACED BY A COMPLETE TEST BOOKLET.

2. Please note that it is the candidate’s responsibility to encode and fill in the Roll Number and Test Booklet Series A, B, C or D carefully and without any omission or discrepancy at the appropriate place in the OMR Answer Sheet. Any omission/discrepancy will render the Answer Sheet liable for rejection.

3. You have to enter your Roll Number on the Test Booklet in the Box provided alongside. DO NOT write anything else on the Test Booklet.

4. This Test Booklet contains 100 items (questions). Each item comprises four responses (answers). You will select the response which you want to mark on the Answer Sheet. In case you feel that there is more than one correct response, mark the response which you consider the best. In any case, choose ONLY ONE response for each item.

5. You have to mark all your responses ONLY on the separate Answer Sheet provided.

6. All items carry equal marks.

7. Before you proceed to mark in the Answer Sheet the response to various items in the Test Booklet, you have to fill in some particulars in the Answer Sheet as per instructions sent to you with your Admission Certificate.

8. After you have completed filling in all your responses on the Answer Sheet and the examination has concluded, you should hand over to the invigilator only the Answer Sheet. You are permitted to take away with you the Test Booklet.

9. Sheets for rough work are appended in the Test Booklet at the end.

10. Penalty for wrong Answers:
THERE WILL BE PENALTY FOR WRONG ANSWERS MARKED BY A CANDIDATE IN THE OBJECTIVE TYPE QUESTION PAPERS.
(i) There are four alternatives for the answer to every question. For each question for which a wrong answer has been given by the candidate, one-third of the marks assigned to that question will be deducted as penalty.
(ii) If a candidate gives more than one answer, it will be treated as a wrong answer even if one of the given answers happens to be correct and there will be same penalty as above to that question.
(iii) If a question is left blank, i.e., no answer is given by the candidate, there will be no penalty for that question.

For Detailed Solution Please Visit:
1. If relative humidity of atmosphere is low, then transpiration rate will be
   (a) more  
   (b) less  
   (c) remains same  
   (d) none of these  
2. Golden rice is enriched with
   (a) Vitamin B1  
   (b) Vitamin D  
   (c) Vitamin C  
   (d) Vitamin A  
3. Major type of wheat cultivated in India is
   (a) Triticum diurum  
   (b) Triticum aestivum  
   (c) Triticum sphaerococum  
   (d) All the above  
4. Where the deficiency symptoms of boron and calcium is observed in growing plants?
   (a) Older leaves  
   (b) Midrib of leaves  
   (c) Terminal leaves  
   (d) Portion between midribs  
5. The Kasturba Gandhi Balika Vidyalaya scheme predominantly belongs to
   (a) Residential school at primary levels for girls belonging to Scheduled Castes, Scheduled Tribes, Other Backward Classes and minorities  
   (b) Only for Boys Residential School  
   (c) Adult Education  
   (d) Technical Education  
6. In which organ of the human body, lymphocyte cells formed?
   (a) Liver  
   (b) Long bone  
   (c) Pancreas  
   (d) Spleen  
7. Assertion (A): Fatty acids should be a part of the balanced human diet  
   Reason (R): The cells of the human body can not synthesize any fatty acids
   (a) Both A and R are individually true and R is the correct explanation of A  
   (b) Both A and Rare individually true but R is not the correct explanation of A  
   (c) A is true but R is false  
   (d) A is false but R is true  
8. Consider the following statements:
   1. Femur is the longest bone in the human body  
   2. Cholera is a disease caused by bacteria  
   3. 'Athlete’s foot' is a disease caused by virus  
   Which of the statements given above are correct?
   (a) 1 and 2  
   (b) 2 and 3  
   (c) 1 and 3  
   (d) 1, 2 and 3  
9. Apple belongs to the family
   (a) Leguminosae  
   (b) Rosaceae  
   (c) Cruciferae  
   (d) Liliaceae  
10. The building block of cellulose is
    (a) Maltose  
    (b) Glucose  
    (c) Fructose  
    (d) Glucose + Fructose
### Model Test Paper 61
#### General Studies Paper I

**11. Consider the following statements:**

1. Dengue is a protozoan disease transmitted by mosquitoes
2. Retro-orbital pain is not a symptom of dengue
3. Skin rash and bleeding from nose and gums are some of the symptoms of dengue

Which of the statements given above is/are correct?

(a) 1 and 2  
(b) 3 only  
(c) 2 only  
(d) 1 and 3

**12. Where is the World’s largest solar steam system installed in India?**

(a) Jammu  
(b) Shirdi  
(c) Tanjore  
(d) Tirupati

**13. In electric bell electric energy is converted into**

(a) Mechanical energy  
(b) Sound energy  
(c) D. C. electric energy  
(d) Magnetic energy

**14. In solar cell**

(a) Photon energy is converted into Heat Energy  
(b) Heat Energy is converted into Mechanical Energy  
(c) Solar Energy is converted into Kinetic Energy  
(d) Solar Energy is converted into Electrical energy

**15. Silver Fiber Revolution refers to the increased production of**

(a) Jute  
(b) Hemp  
(c) Cotton  
(d) Fish

**16. The hormone ------ is used to suppress the vigour of grape vines and increase the fruitfulness of buds in grapes**

(a) Cycocel  
(b) Gibberellic acid  
(c) Hydrogen cyanamide  
(d) Rhizobium

**17. The Matters relating to, or connected with, the election of a president or Vice President are provided in the Article**

(a) 70  
(b) 71  
(c) 72  
(d) 73

**18. Which of the following Constitution Amendment increased the size of the Lok Sabha from 525 to 545?**

(a) 17th  
(b) 28th  
(c) 30th  
(d) 31st

**19. Gibberellic acid is found in**

1. Plants  
2. Animals  
3. Bacteria  
4. Fungi

(a) Only 4  
(b) 1 and 2  
(c) 1 and 4  
(d) 1, 3 and 4

**20. Following is the main effect of rise in prices**

(a) Value of money increases  
(b) Creditor benefited  
(c) Debtor is put to loss  
(d) Saving tendency is reduced

For Detailed Solution Please Visit:  
21. Which of the following statements are correct?
1. Constitution of India prohibits child labour in hazardous and non hazardous industries
2. Article 24 employment of children below the age of fourteen years in factories
(a) Only 1
(b) Only 2
(c) Both 1 and 2
(d) Neither 1 nor 2

22. Rocket works on the principle of conservation of
(a) Mass
(b) Energy
(c) Linear momentum
(d) Angular momentum

23. Which of the following statements are correct about the Independent Labour Party?
1. Independent Labour Party (ILP) was an Indian political organization formed under the leadership of Dr. B. R. Ambedkar
2. It was formed against the brahmanical and capitalist structures in the society
3. It was supported by the communist leaders
(a) Only 1
(b) 1 and 2
(c) 1 and 3
(d) 1, 2 and 3

24. Causal organism of Anthrax is
(a) Pasturella multicaida
(b) Brucella anthrasis
(c) Bacillus anthrasis
(d) Clostridium sp

25. Which drug is given orally to AIDS patients with pneumocystic carinii infection?
(a) Pyrimethamine
(b) Sulfadiazine
(c) Pentamidine
(d) Cotrimoxazole

26. For purchase of cow which type of loan is given to the farmer?
(a) Short term loan
(b) Long term loan
(c) Medium term loan
(d) All above type

27. ------ is a place of Maharashtra having heavy rainfall
(a) Mumbai
(b) Amboli
(c) Panchgani
(d) Kolhapur

28. The electricity provided to our house if of the type ------
(a) A.C.
(b) D.C.
(c) 50 Hertz D.C
(d) Magnetic

29. Downward translocation of nutrients occur by
(a) xylem cells
(b) phloem cells
(c) both of these
(d) none of these

30. Every year the consumer day in India is celebrated on
(a) 15 March
(b) 24 December
(c) 27 December
(d) 21 January
31. What are the laws of revolution of planet around the Sun are called?
(a) Faraday’s Laws
(b) Newton’s Laws of motion
(c) Kepler’s Laws of motion
(d) Lenz’s Law

32. Law of demand examines:
(a) the effect of demand on output
(b) the effect of price change on demand
(c) the effect of demand on price
(d) b and c both

33. Which is the main country imports tea from India?
(a) Britain
(b) America
(c) France
(d) Russia

34. Which pigment causes the induction of red colour in fruits?
(a) Lycopene
(b) Anthocyanin
(c) Xanthophyll
(d) Carotene

35. Green leafy vegetables contain high amount of
1. Iron
2. Potassium
3. Folic acid
(a) Only 1
(b) 1 and 2
(c) 1 and 3
(d) 1, 2 and 3

36. What tax is levied and income goes to local administrative bodies?
(a) Sales tax
(b) Succession duty
(c) Professional tax
(d) Octroi

37. Which one of the following has been wrongly listed as a duty of Indian citizens?
(a) To uphold and protect the sovereignty, unity and integrity of the country
(b) To promote harmony and the spirit of common brotherhood among the people of India
(c) To practice family planning and control population
(d) To protect and preserve the natural environment

38. Which of the following statements are correct about the S-wave or secondary wave?
1. S-wave move through the body of an object
2. The S-wave moves as a shear or transverse wave
3. It is first to arrive on an earthquake seismogram
(a) Only 1
(b) 1 and 2
(c) 1 and 3
(d) 1, 2 and 3

39. In nano science the term “nano” refers to the metric prefix
(a) 10-9
(b) 10-10
(c) 10-12
(d) 10-6

40. Which of the following are attributed to M. G. Ranade?
1. Indian National Social Conference
2. Prarthana Samaj
3. Industrial Association of Western India
(a) Only 2
(b) 1 and 2
(c) 2 and 3
(d) 1, 2 and 3
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| 41. By which international certificate special import concession can be achieved? | (a) ISO-9000 and BIS-14000  
(b) ISO-8000 and BIS-05  
(c) ISO-7000 and BIS-06  
(d) ISO-14000 and BIS-9000 |
| 42. Which method is used for planting teak wood? | (a) By sowing seed  
(b) By Branch  
(c) Stump method  
(d) Grafting |
| 43. Which of the following is the income source of Panchayat Samiti? | (a) House Tax  
(b) Octroi  
(c) Land Tax  
(d) None of the above |
| 44. Golden Jubilee Biotech Park at Chennai promotes biotechnology based entrepreneurship | (a) among young men  
(b) among young women  
(c) among aged men and women  
(d) among young men and women |
| 45. The scientists of which of the following countries have developed Oral Cholera Vaccine? | (a) India  
(b) United Kingdom  
(c) Russia  
(d) Japan |
| 46. Which of the following statements regarding the Indian Standard Time (IST) are correct? | 1. The Indian Standard Time is observed throughout India, with a time offset of UTC+5:30  
2. Indian Standard Time is computed on the basis of 82.5 degrees East longitude  
3. It is computed from a clock tower in New Delhi  
4. India does not observe Daylight Saving Time |
| 47. Which of the following are the benefits of the progressive tax system? | (a) Only 1  
(b) 1 and 2  
(c) 1 and 3  
(d) 1, 2 and 3 |
| 48. The Effluent of Pulp and Paper Production Industry contains | (a) Biodegradable materials in the soil  
(b) Mutagenic and carcinogenic compounds  
(c) Volatile substances  
(d) Slurry |
| 49. Which is not a cause of the present global warming and climate change? | (a) CFC emission  
(b) Carbon dioxide emission  
(c) Deforestation  
(d) Methane emission |
| 50. Who bears the incidence of indirect tax? | (a) Manufacturer  
(b) Seller  
(c) Consumer  
(d) All the above |
51. Article 15(5) which was inserted with the 93rd Amendment, provides reservation for socially and educationally backward classes of citizens or for the scheduled caste or Tribe, paved the way for ----.

   (a) Political Reservation  
   (b) Reservations in educational institutions  
   (c) Reservations in employment  
   (d) Reservations in Railway seats

52. Which is the leap year from below?

   (a) 1991  
   (b) 2011  
   (c) 2018  
   (d) 2020

53. On an average how much khoa is obtained from one litre of Buffalo milk?

   (a) 100 gram  
   (b) 250 gram  
   (c) 350 gram  
   (d) 400 gram

54. Majority of Indian soils are low in ------

   (a) Phosphorus  
   (b) Potash  
   (c) Nitrogen  
   (d) Sulphur

55. Which breed of sheep is famous for quality wool?

   (a) Nilgiri  
   (b) Avista  
   (c) Kashmir Merino  
   (d) All above

56. Which of the following soils have a unique distinction of providing valuable building material?

   (a) Alluvial soils  
   (b) Black cotton soils

57. The forest soils are deficient in

   1. Humus  
   2. Nitrogen  
   3. Potash  
   4. Phosphorus

58. The reh, kallar, usar,thur,rakar,karl and chopan are types of

   (a) Laterite soil  
   (b) Black cotton soil  
   (c) Saline soil  
   (d) Forest soil

59. Which of the following statements are correct?

   1. Energy generated by using wind, tides, solar, geothermal heat, and biomas is known as non-conventional energy  
   2. They do not cause environmental pollution  
   3. All these sources are inexhaustible

   (a) Only 1  
   (b) 1 and 2  
   (c) 1 and 3  
   (d) 1, 2 and 3

60. India is not very rich in which of the following non-conventional energy source?

   (a) Solar energy  
   (b) Tidal energy  
   (c) Wind energy  
   (d) Geo-Thermal Energy
**Model Test Paper 61**  
**General Studies Paper I**

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| 61. Capital account balance will not include: | (a) Direct foreign investment  
(b) Private loans received  
(c) Grants from foreign governments  
(d) Short term capital flow |
| 62. The charcoal used to decolourise raw sugar is | (a) Wood charcoal  
(b) Sugar charcoal  
(c) Coconut charcoal  
(d) Animal charcoal |
| 63. Which is the highest peak in Nilgiri Mountain? | (a) Kalsubai  
(b) Gurushikhar  
(c) Dodabetta  
(d) Kattadadu |
| 64. The turn-on voltage of silicon PN junction diode is | (a) 0.3 V  
(b) 0.1 V  
(c) 1.0 V  
(d) 0.7 V |
| 65. Which is the material used to increase the 'gas sensing technology' of gas? | (a) Femto material  
(b) Nano material  
(c) Silica material  
(d) Ultrasmall particle |
| 66. Who is the pioneer of preventive medicine vaccine? | (a) Ferdinand Cohn  
(b) Robert Koch  
(c) Charles Darwin  
(d) Louis Pasteur |
| 67. Which of the following statements are correct about INTUC? | (a) Only 1  
(b) Only 2  
(c) 1 and 2  
(d) 1, 2 and 3 |
| 68. During the election for the post of the future Prime Minister of India held by the Congress party who had the highest number of votes? | (a) Jawahar Lal Nehru  
(b) Sardar Patel  
(c) J. B. Kripalani  
(d) None of the above |
| 69. Who is widely remembered for his efforts in achieving the Official Language of India status for Hindi? | (a) Sardar Patel  
(b) Madan Mohan Malviya  
(c) Purushottam Das Tandon  
(d) Suryakant Tripathi |
| 70. India introduced 'Open Sky Policy' for the purpose of | (a) Cargo transport  
(b) Bilateral Air Service  
(c) Aircraft development  
(d) Development of air-worthiness |

71. Which of the following are the cause of the formation of Mirage?

1. Refraction of light
2. Diffraction of light
3. Reflection of light
4. Terrestrial heating

(a) Only 1  
(b) 1 and 4  
(c) 1, 2 and 4  
(d) 1, 3 and 4

72. For better growth and development of a crop the proportion of soil : air : water should be ----

(a) 50 : 25 : 25  
(b) 40 : 20 : 40  
(c) 30 : 30 : 40  
(d) 30 : 40 : 30

73. -------- is responsible for yellow colour of milk

(a) Riboflavin  
(b) Lactose  
(c) Niacin  
(d) Carotene

74. Which of the following fruit trees are high-salt tolerant?

1. Date-palm  
2. Pomegranate  
3. Guava  
4. Ber  
5. Jamun

(a) 1, 3 and 5  
(b) 1, 3 and 4  
(c) 2, 3 and 4  
(d) 1, 2 and 4

75. What is the oil content in Sesamum indicum L.?

(a) 30 to 35%  
(b) 35 to 38%  
(c) 25 to 30%  
(d) 45 to 50%

76. Under late sown conditions Kharif Jowar is more infested with

(a) Shoot fly  
(b) Stem borer  
(c) Midge fly  
(d) White fly

77. Name the mango variety which does not have seed/stone?

(a) Rajapuri  
(b) Mankur  
(c) Sindhu  
(d) Ratna

78. ------ fish generally stays at the bottom of the tank

(a) Rohu  
(b) Katla  
(c) Mrigal  
(d) Tilapia

79. Which of the following fish is a heavy feeder and feeds on small fish and prawns?

(a) Bombay duck  
(b) Haid  
(c) Surmai  
(d) Bangada

80. Which of the following countries first presented the proposal for the formation of SAARC?

(a) India  
(b) Nepal  
(c) Pakistan  
(d) Bangladesh
81. How many international airports are there in India?
(a) 5
(b) 7
(c) 10
(d) 12

82. Which of the following statements are correct about the Bombay Plan?
1. Bombay Plan was the first to envisage the mixed economy
2. It was developed during the second world war
3. Jawaharlal Nehru was the chief architect of the Bombay Plan
(a) Only 1
(b) 1 and 2
(c) 1 and 3
(d) 1, 2 and 3

83. Which of the following statements are correct about the Indian League?
1. Indian League was founded by Sisir Kumar Ghose in 1875
2. The League represented the middle and upper class
3. The League was superseded by the Indian Association within one year
(a) Only 1
(b) 1 and 2
(c) 1 and 3
(d) 1, 2 and 3

84. Which of the following statements are correct about the Indian Association?
1. The Indian Association was founded in 1876
2. Surendra Nath Banerjea was its first Secretary
3. It was headed by Anand Mohan Bose
4. The Bengalee was the chief organ of the Indian Association
(a) 1 and 2
(b) 1, 2 and 3
(c) 1 and 4
(d) 1, 2, 3 and 4

85. Who wrote "The educated classes are the voice and brain of the country. The Bengalee Babus now rule public opinion from Peshawar to Chittagong"?
(a) Lord Lytton
(b) A. O. Hume
(c) Ilbert
(d) Henry Cotton

86. The term 'Hypothermia' means
(a) fall in body temperature to below 35.0 °C (95.0 °F)
(b) fall in body temperature to below 36.0 °C
(c) fall in body temperature to below 37.0 °C
(d) maintain body temperature above 37.0 °C

87. In the development of science the basic stage is
(a) definition
(b) classification
(c) theorizing
(d) hypothesis

Hypothermia is defined as a body core temperature below 35.0 °C (95.0 °F). Symptoms depend on the temperature. In mild hypothermia there is shivering and mental confusion. In moderate hypothermia shivering stops and confusion increases. In severe hypothermia there may be paradoxical undressing, where a person removes their clothing, as well as an increased risk of the heart stopping. Hypothermia has two main types of causes. It classically occurs from extreme exposure to cold. It may also occur from any condition that decreases heat production or increases heat loss. Commonly this includes alcohol intoxication but may also include low blood sugar, anorexia, and advanced age among others. Body temperature is usually maintained near a constant level of 36.5–37.5 °C (97.7–99.5 °F) through thermoregulation. Efforts to increase body temperature involves shivering, increased voluntary activity, and putting on warmer clothing. Hypothermia may be diagnosed based on either a person symptoms in the presence of risk factors or by measuring a person's core temperature.
88. Arrange the following food items in the increasing order (low to high) of the calcium content

1. Milk
2. Yogurt
3. Soybeans
4. Cheese

(a) 1, 3, 2, 4  
(b) 2, 4, 1, 3  
(c) 4, 1, 2, 3  
(d) 3, 1, 2, 4

89. The onion belongs to the genus

(a) Allium  
(b) Brassica  
(c) Cucurbita  
(d) Carum

90. The food in onion is stored in the form of

(a) carbohydrates  
(b) glucose  
(c) sucrose  
(d) cellulose

91. Which of the following statements are correct?

1. Sonar is a technique that uses sound propagation to navigate, communicate with or detect objects on or under the surface of the water  
2. SODAR is used for atmospheric investigations

(a) Only 1  
(b) Only 2  
(c) Both 1 and 2  
(d) Neither 1 nor 2

92. In India, partyless democracy was first advocated by:

(a) Jayaprakash Narayan  
(b) M.N. Roy  
(c) Vinoba Bhave  
(d) Mahatma Gandhi

93. What is used to find out holes or cracks in metal moulding or to study the wearing of machines

(a) Infrared rays  
(b) Ultraviolet rays  
(c) Radio waves  
(d) Radiation from isotopes

94. The most abundant metallic element in the human body is

(a) Sodium  
(b) Magnesium  
(c) Calcium  
(d) Potassium

95. Solar energy is generated due to

(a) Conversion of Helium into Hydrogen  
(b) Conversion of Hydrogen into Helium  
(c) Conversion of Hydrogen into Water  
(d) None of the above

96. Which of the following is the natural science?

(a) Psychology  
(b) Sociology  
(c) Politics  
(d) Chemistry

97. The INSAT Master Control Facility is located at which of the following locations?

1. Bhopal  
2. Thiruvananthapuram  
3. Bangalore  
4. Hassan

(a) 1 and 2  
(b) 2 and 3  
(c) 3 and 4  
(d) 1 and 4
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| 98. Metals are good conductors of electricity because | (a) they have high density  
(b) they have bright surface  
(c) they have large number of free electrons  
(d) all the three above |
| 99. Which mosquito spreads the dreaded disease "Chikungunya"? | (a) Culex  
(b) Aedes egypti  
(c) Anopheles  
(d) Tse-Tse |
| 100. Which fishes are more effective to control the Mosquito larva in water? | (a) Moquito fishes and Glass fishes  
(b) Cat fishes and Bart fishes  
(c) Angel fishes and Barb fishes  
(d) Moquito fishes and Killfishes |
## Answer Sheet

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</tbody>
</table>

For Detailed Solution Please Visit: