

(To be filled up by the candidate by **blue/black ball-point pen**)

Roll No.

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Roll No.

(Write the digits in words)

Serial No. of Answer Sheet

Day and Date

(Signature of Invigilator)

INSTRUCTIONS TO CANDIDATES

(Use only **blue/black ball-point pen** in the space above and on both sides of the Answer Sheet)

1. Within 10 minutes of the issue of the Question Booklet, check the Question Booklet to ensure that it contains all the pages in correct sequence and that no page/question is missing. In case of faulty Question Booklet bring it to the notice of the Superintendent/Invigilators immediately to obtain a fresh Question Booklet.
2. Do not bring any loose paper, written or blank, inside the Examination Hall *except the Admit Card without its envelope*.
3. A separate Answer Sheet is given. *It should not be folded or mutilated. A second Answer Sheet shall not be provided. Only the Answer Sheet will be evaluated.*
4. Write your **Roll Number and Serial Number of the Answer Sheet by pen** in the space provided above.
5. *On the front page of the Answer Sheet, write by pen your Roll Number in the space provided at the top, and by darkening the circles at the bottom. Also, wherever applicable, write the Question Booklet Number and the Set Number in appropriate places.*
6. No overwriting is allowed in the entries of Roll No., Question Booklet No. and Set No. (if any) on OMR sheet and Roll No. and OMR sheet No. on the Question Booklet.
7. Any changes in the aforesaid entries is to be verified by the invigilator, otherwise it will be taken as unfair means.
8. Each question in this Booklet is followed by four alternative answers. *For each question, you are to record the correct option on the Answer Sheet by darkening the appropriate circle in the corresponding row of the Answer Sheet, by pen as mentioned in the guidelines given on the first page of the Answer Sheet.*
9. For each question, darken only one circle on the Answer Sheet. If you darken more than one circle or darken a circle partially, the answer will be treated as incorrect.
10. *Note that the answer once filled in ink cannot be changed.* If you do not wish to attempt a question, leave all the circles in the corresponding row blank (such question will be awarded zero marks).
11. For rough work, use the inner back page of the title cover and the blank page at the end of this Booklet.
12. Deposit *only the OMR Answer Sheet* at the end of the Test.
13. You are not permitted to leave the Examination Hall until the end of the Test.
14. If a candidate attempts to use any form of unfair means, he/she shall be liable to such punishment as the University may determine and impose on him/her.

[उपर्युक्त निर्देश हिन्दी में अन्तिम आवरण-पृष्ठ पर दिये गये हैं।]

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No. of Questions : 150

Time : $2\frac{1}{2}$ Hours]

[Full Marks : 450

Note : (1) Attempt as many questions as you can. Each question carries 3 (three) marks. *One mark will be deducted for each incorrect answer. Zero mark will be awarded for each unattempted question.*

(2) If more than one alternative answers seem to be approximate to the correct answer, choose the closest one.

1. Tyndall effect in colloidal solution is due to :

- (1) Scattering of light
- (2) Reflection of light
- (3) Absorption of light
- (4) Presence of electrically charged particles

2. What is an aerosol ?

- (1) Colloidal suspension
- (2) Dispersion of a liquid in a liquid
- (3) Mixing of air in liquid drops
- (4) None of these

3. Which of the following acts as protective colloid ?

- (1) Silica gel
- (2) Sodium acetate
- (3) Gelatin
- (4) None of these

P. T. O.

4. Molar volume of a ideal gas is given by :
- (1) RT/P (2) 22.4 litre (3) P/RT (4) M/d
5. Which of the following is an inert gas ?
- (1) H_2 (2) O_2 (3) N_2 (4) Argon
6. Pascal is the unit of :
- (1) Force (2) Energy (3) Pressure (4) Temperature
7. A 5 M solution of H_2SO_4 is diluted from 1 litre to 10 litre. What is the normality of solution ?
- (1) 0.25 N (2) 1 N (3) 2 N (4) 7 N
8. When the atmospheric temperature becomes nearly equal to the dew point, then relative humidity is equal to :
- (1) 100% (2) 50% (3) 90% (4) 0%
9. Chronometer measures :
- (1) Area (2) Time (3) Length (4) Humidity
10. Faraday is the unit of :
- (1) Current (2) Charge (3) Capacitance (4) Resistance
11. The process by which the gas is converted into liquid is called ?
- (1) Sublimation (2) Liquifaction (3) Evaporation (4) Melting
12. Light year is related with measurement of :
- (1) Light velocity (2) Time (3) Distance (4) None of these
13. Duration of the day is the highest in :
- (1) Mercury (2) Venus (3) Earth (4) Mars

14. Which is the deepest sea ?
 (1) Caribbean Sea (2) Bay of Bengal (3) Red Sea (4) Pacific Sea
15. The rain drops are in Spherical shape due to :
 (1) Residual pressure (2) Thrust on drop
 (3) Surface tension (4) Viscosity
16. Mars gas mainly contains :
 (1) CO (2) H₂S (3) C₂H₂ (4) CH₄
17. Black hole consists of :
 (1) Upper surface of Atmosphere (2) Ozone layer
 (3) Superdense planetary motion (4) Black Star
18. Green house effect leads to :
 (1) Increase in temperature (2) Increase in rain fall
 (3) Increase in CO₂ (4) Decrease in light intensity
19. Removal of top layer of soil/rocks by wind and water is termed as :
 (1) Erosion (2) Corrosion (3) Decapitation (4) Desalination
20. The earth rotates from :
 (1) East to West (2) West to East (3) North to South (4) South to North
21. Which is well known non-renewable source of energy ?
 (1) Solar energy (2) Coal (3) Wood (4) Nuclear energy
22. Taxon is the unit of a group of :
 (1) Species (2) Genus (3) Order (4) Taxa

23. The substance found between cell-wall of two cells is called :
- (1) Lysosomes (2) Lomasomes (3) Microsomes (4) Middle Lamella
24. Metamorphosis occurs in :
- (1) Frog (2) Rabbit (3) Human (4) Amoeba
25. T. Schwann and M. Schleiden were :
- (1) English botanists (2) German biologists
(3) Austrian Physiologists (4) Dutch Zoologists
26. Which among the following is *not* a class of phylum Mollusca ?
- (1) Gastropoda (2) Scaphopoda (3) Decapoda (4) Cephalopoda
27. Herpetology is the study of :
- (1) Fishes (2) Birds (3) Reptiles (4) Insects
28. Zygotic meiosis is found in :
- (1) Fern (2) Fucus
(3) Funaria (4) Chlamydomonas
29. Which of the following theory was *not* given by Darwin ?
- (1) Struggle for existence (2) Natural selection
(3) Survival of the fittest (4) Genetic drift
30. In pond ecosystem, benthos means :
- (1) Epineuston
(2) Periphyton
(3) Zooplankton on the surface
(4) Primary consumers at the bottom of pond

31. Type of relationship, in which one organism is benefitted while there is no effect on other, is called :
- (1) Symbiosis (2) Commensalism (3) Mutualism (4) Parasitism
32. Filariform is the larva of :
- (1) Arthropod (2) Platyhelminthes (3) Aschelminthes (4) Protozoa
33. Amphiblastula is the larva of :
- (1) Hydra (2) Sycon (3) Planaria (4) Leucosodenia
34. Fungus/Lichens which grow on wood are termed as :
- (1) Terricolous (2) Saxicolous (3) Lignicolous (4) Corticolous
35. Broad leaved forests of Oak are found in :
- (1) tropical deciduous forest (2) tropical evergreen forest
(3) temperate deciduous forest (4) coniferous forest
36. Biological nitrogen fixation can *not* be carried out by :
- (1) Blue-green algae (2) Rhizobacteria
(3) Azotobacter (4) Mycorrhiza
37. In stratosphere, a rise in attitude leads to :
- (1) Rise in temperature (2) Decline in temperature
(3) No change in temperature (4) Decrease in light intensity
38. Which one is *not* part of biosphere ?
- (1) Atmosphere (2) Phermosphere (3) Lithosphere (4) Hydrosphere
39. The approximate percentage of CO_2 in the atmospheric gases is :
- (1) 21.8% (2) 3% (3) 5% (4) 0.03%

40. In ecology, physiographic factor refers to :
- (1) Water holding capacity of soil
 - (2) Physiological state of vegetation cover
 - (3) Topographic feature of earth surface
 - (4) Biotic factors
41. Unidirectional flow of energy in an ecosystem is governed by the
- (1) First Law of thermodynamics
 - (2) Second Law of thermodynamics
 - (3) Both first and second laws of thermodynamics
 - (4) None of these
42. A barren land is first colonized by :
- (1) Lichens
 - (2) Mushrooms
 - (3) Herbs
 - (4) Xerophytes
43. Mangrove vegetation is abundantly found in :
- (1) Doon Valley
 - (2) Western Ghats
 - (3) Sundarbans
 - (4) Kullu Valley
44. Gasoline is a mixture of alkanes having carbon atoms :
- (1) $C_{12} - C_{16}$
 - (2) $C_2 - C_5$
 - (3) $C_6 - C_8$
 - (4) $C_9 - C_{12}$
45. Oxidation ponds refer to natural process of waste water treatment by :
- (1) Aerobic microorganisms
 - (2) An acrobic microorganisms
 - (3) Both aerobic and an aerobic microbes
 - (4) Chemical oxidation
46. If C. O. D. is usually higher than BOD, it means :
- (1) Water contains less number of microbes
 - (2) Water requires more chemical for oxidation
 - (3) Biodegradable component of water carries some non-biodegradable carbon
 - (4) None of these

47. Rotating biological contactors are used in :
- (1) Primary waste water treatment
 - (2) Secondary waste water treatment
 - (3) Tertiary waste water treatment
 - (4) Pre-treatment process
48. Eutrophication of water body refers to :
- (1) Nutrient Enrichment of water body
 - (2) Increase in biodiversity
 - (3) Increase in number of trophic level
 - (4) Only organic loading of water body
49. In water treatment process, activated sludge means :
- (1) Semi-solid sludge
 - (2) Sludge with high settling velocity
 - (3) Sludge mixed with live cells of microorganisms
 - (4) Sludge with high amount of nitrogen
50. Biological oxygen demand is usually measured on 5th day of incubation because :
- (1) Oxygen gets depleted on 5th day
 - (2) In order to save the time
 - (3) Microbes do not survive after 5 days
 - (4) In order to avoid contribution of N – BOD in C – BOD
51. Ms. Evelyn Pruitt, who coined the term remote sensing in mid 1950, was :
- (1) Physicist
 - (2) Geologist
 - (3) Biologist
 - (4) Geographer
52. Which of the following sensor is *not* used in the remote sensing satellite ?
- (1) Electromagnetic sensor
 - (2) Acoustic sensor
 - (3) Thermal sensor
 - (4) Biosensor

53. Active Remote Sensing sensor detect the objects irradiated by :
- (1) Natural energy source (2) Artificial energy source
(3) Energy of sensor itself (4) None of these
54. Which of following is not direct applications of Remote Sensing Technology :
- (1) Atmospheric study (2) Ground-based measurement
(3) Global climatic change (4) Crop yield
55. How many GPS satellites are used to obtain three dimensional positions ?
- (1) Four (2) Six (3) Twenty four (4) Eight
56. GPS operational satellites orbit the earth in :
- (1) Six hours (2) Twelve hours
(3) Twenty four hours (4) Twenty eight hours
57. Which of the following is *not* the direct function of GPS ?
- (1) Navigation (2) Tracking (3) Timing (4) Modelling
58. Which of the following is *true* statement about the Tsunami ?
- (1) They are abnormal tidal waves
(2) They are shallow water waves with wavelength of more than 100 km
(3) They are seismic waves with tidal wavelength of 30 m or more
(4) They are transcranial waves
59. Earthquake at richter scale 5.0 is actually higher in magnitude than that at richter scale 4.0 by :
- (1) Two fold (2) Ten fold (3) Hundred fold (4) None of these
60. Venom of Cobra is :
- (1) Antitoxin (2) Haemotoxin (3) Neurotoxin (4) Antienzyme

61. The best biofertilizer for the rice field would be :
- (1) Azotobacter (2) Rhizobium
(3) Bacillus polymyxa (4) Azolla pinnata
62. Proteins are synthesized at :
- (1) Mitochondria (2) Centrosomes (3) Ribosomes (4) Golgi body
63. A genetically engineered microbe utilized for cleaning oil spill is :
- (1) Escherichia coli (2) Bacillus subtilis
(3) Agrobacterium tumifaciens (4) Pseudomonas putida
64. A bacterium associated with production of bioinsecticide is :
- (1) Bacillus subtilis (2) Bacillus thuringiensis
(3) Agrobacterium rhizogenes (4) Agrobacterium tumifaciens
65. In India, the most common type of biogas digester is :
- (1) Floating gas holder digester (2) Fixed dome digester
(3) Flexible bag digester (4) Prototype digester
66. Which one of the following organism has been commercialized for biocontrol of plant diseases ?
- (1) Streptomyces rochii (2) Aspergillus flavus
(3) Bacillus subtilis (4) Trichoderma viridial
67. Genetic load refers to :
- (1) Very high number of genes (2) Very low number of genes
(3) Bad genes present in heterozygotes (4) A specific genetic disease
68. The initiation codon in eukaryotes is :
- (1) AUG (2) UGA (3) UAG (4) AAU

69. Certain genetic elements can jump to new loci, and inactivate the gene into which they are inserted, are called :
- (1) Heterochromatins (2) Episomes
(3) Transposons (4) Plasmagenes
70. m-RNA transcription begins when the inducer substance combines with :
- (1) Operator gene (2) Regulator gene
(3) Structural gene (4) Repressor protein
71. Ability of a gene to influence more than one trait is termed as :
- (1) Polymorphism (2) Pleiotropy
(3) Polygenetic trait (4) Polymerisation
72. Which of the following industry does *not* release mercaptans ?
- (1) Pulp and paper manufacturing (2) Tanneries
(3) Refineries (4) Coal-tar
73. Which one of the following is a major indoor air pollutant in India ?
- (1) Ozone (2) Radon (3) CO (4) Methane
74. Which type of scrubber is most suitable for controlling fine particulate emission ?
- (1) Mechanical scrubber (2) Venturi scrubber
(3) Spray tower (4) Packed tower
75. Byssinosis is an occupational disease found in workers of :
- (1) Textile industry (2) Mica mines
(3) Rock mines (4) Galvanising industry

76. An additive mixed with petrol to increase its oxygen content is :
- (1) Methyl tertiary butyl ether (2) Tetraethyl lead
(3) Propyl alcohol (4) Methyl ethyl lead
77. Specific heat of water is :
- (1) 23 calorie/g/°C (2) 1 calorie/g/°C
(3) 1 Joule/g/°C (4) 4.18 calorie/g/°C
78. Thunderstorms are considered in which scale of weather system ?
- (1) Synoptic scale (2) Microscale (3) Mesoscale (4) Global scale
79. Which of the following are known as minor planets ?
- (1) Comets (2) Asteroids (3) Méteroites (4) Satellites
80. Trade winds are found between :
- (1) Equator and 30° latitude (2) 30° and 60° latitude
(3) Pole and 60° latitude (4) Pole and 30° latitude
81. Horse latitude is located :
- (1) at 30° (2) at 60°
(3) between 30° and 60° (4) between equator and 30°
82. Value of dry **adiabatic** lapse rate is :
- (1) 6.67°C/Km (2) 9.76°C/Km (3) 10.56°C/Km (4) 11.36°C/Km
83. Ambient air is stable when the ambient lapse rate is :
- (1) Sub adiabatic (2) Super adiabatic
(3) Naturally stable (4) Hyper adiabatic

84. As per National Forest Policy of 1952, the area under forest cover should be :
- (1) 30% of the geographical area (2) 40% of the geographical area
(3) 23% of the geographical area (4) 33% of the geographical area
85. Which of the following State has the maximum area under forest cover ?
- (1) Kerala (2) Maharashtra
(3) Madhya Pradesh (4) Karnataka
86. The Headquarter of UNEP is located at :
- (1) Paris (2) Geneva (3) Riode Jenerio (4) Nairobi
87. Indian Board for wild life was constituted in :
- (1) 1972 (2) 1948 (3) 1952 (4) 1977
88. Bharatpur bird sanctuary is located in :
- (1) Uttar Pradesh (2) Madhya Pradesh
(3) Haryana (4) Rajasthan
89. Average air pressure at sea level is approximately :
- (1) 1 kg/cm² (2) 6.2 pounds/inch²
(3) 1260 millibars (4) 13.6 pounds/inch²
90. A wind rose diagram does *not* contain information about :
- (1) Wind speed (2) Wind direction
(3) Period of calm (4) Relative humidity
91. In dry land areas rainfall is less than :
- (1) 350 mm/annum (2) 500 mm/annum
(3) 750 mm/annum (4) 1000 mm/annum

- 92.** Alluvial soils are mostly found in which area of our country ?
(1) Deccan plateau (2) Western Ghats
(3) Indo-Gangetic plains (4) North-East Himalayas
- 93.** Coniferous forests are found in India in :
(1) Western Ghats (2) Eastern Ghats
(3) Himalaya (4) Indo-Gangetic plains
- 94.** India is considered under which Zoogeographical region :
(1) Palaearctic (2) Neotropical
(3) Oriental (4) Ethiopian
- 95.** Largest amount of Oxygen is released by :
(1) Tropical rain forest (2) Temperate forests
(3) Oceanic photosynthesis (4) Fresh water ecosystem
- 96.** GAIYA hypothesis was proposed by :
(1) Rachel Carson (2) James Lovelock and Lynn Margulis
(3) Hutchinson and Brooker (4) E. P. Odum
- 97.** Which elemental cycle has no atmospheric reservoir ?
(1) Sulphur (2) Nitrogen (3) Phosphorous (4) Carbon
- 98.** Major source of anthropogenic sulphur dioxide in atmosphere is :
(1) Diesel (2) Petrol (3) Coal (4) Wood
- 99.** Major ore of mercury is :
(1) Galena (2) Loadstone (3) Cinnabar (4) Azurite

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100. Ozone and PAN exert their biochemical effects by producing :
- (1) Carbonium ion (2) Free radicals (3) H⁺ ions (4) Ozonides
101. At field capacity, the soil does *not* contain one of the following type of water :
- (1) Combined water (2) Water vapour
(3) Capillary water (4) Gravitational water
102. As per Central Forestry Commission (CFC), how many forest types are found in our country ?
- (1) 11 (2) 22 (3) 25 (4) 16
103. Recycling is the biggest source for which one of the following metal ?
- (1) Iron (2) Copper (3) Aluminium (4) Lead
104. World's largest producer of non-fuel mineral resource is :
- (1) Former Soviet Union (2) United States of America
(3) China (4) South Africa
105. Hardness of minerals is measured in :
- (1) Talc Scale (2) Moh's Scale (3) Clastic Scale (4) Beaufort's Scale
106. Which pollutant is a serious problem in the ground water of West Bengal ?
- (1) Nitrate (2) Fluoride (3) Arsenic (4) Selenium
107. Optimum fluoride concentration in drinking water is :
- (1) 0.1 ppm (2) 0.5 ppm (3) 1.0 ppm (4) 1.5 ppm

108. Typhoons occur in :
(1) Pacific Ocean (2) Indian Ocean (3) Atlantic Ocean (4) Bay of Bengal
109. Reprocessing of spent fuel is difficult due to presence of extremely toxic metal. This metal is :
(1) Beryllium (2) Plutonium (3) Thorium (4) Uranium
110. Which one of the following is least damaging to the Environment ?
(1) Nuclear power (2) Hydroelectric plant
(3) Thermal power plant (4) None of these
111. Ideal wind speed for a wind turbine is :
(1) 2 to 10 m/sec (2) 4 to 25 m/sec (3) 8 to 40 m/sec (4) 10 to 40 m/sec
112. In cigarette smoke, which one of the following is present in highest concentrations :
(1) SO₂ (2) NO_x (3) Furans (4) Pyridine
113. EIA was first formally established in 1969 by :
(1) U. K. (2) U. S. A. (3) France (4) Netherland
114. Which Environmental Impact identification technique incorporates cause - effect relationships ?
(1) Overlay maps (2) Matrices (3) Networks (4) Check lists
115. Strategic Environmental Assessment (SEA) considers :
(1) Defense projects
(2) Developments projects
(3) Policies, plans and programs
(4) Impact on socioeconomic environment

116. Notification on EIA of development project is covered under :
- (1) EIA Act, 1994
 - (2) Environment (Protection) Act, 1986
 - (3) The Factories Act, 1948
 - (4) The Environment Conservation Act, 1994
117. Fundamental duties of every citizen related to Environment under which Article of the Indian Constitution ?
- (1) 48 A
 - (2) 21
 - (3) 51 A
 - (4) 42
118. The biggest drawback of using cost-benefit analysis in EIA is :
- (1) Its theoretical approach
 - (2) Conversion of Environmental cost into monetary units
 - (3) Choice of discount rate
 - (4) None of these
119. According to new regulation, the thickness of plastic bags should *not* be less than :
- (1) 10 micron
 - (2) 20 micron
 - (3) 30 micron
 - (4) 15 micron
120. Incineration of municipal solid waste releases one of the following toxic material of significant concern :
- (1) HCl gas
 - (2) Dioxins
 - (3) Heptachlor
 - (4) Methyl mercury
121. Except the Member Secretary, all other members of State Pollution Control Board hold the office for a term of :
- (1) Six years
 - (2) Four years
 - (3) Three years
 - (4) Five years

- 122.** To reduce the formation of dioxins and furans, the incinerators are operated at a temperature of :
- (1) 500°C (2) 1200°C (3) 750°C (4) 950°C
- 123.** Normal writing papers are made of :
- (1) Cellulose only (2) Cellulose and hemicellulose only
(3) Lignin and cellulose (4) Lignin and hemicellulose
- 124.** Human hairs are not easily biodegradable because of the presence of :
- (1) Low water content (2) Antibiotic compound
(3) High inorganic mineral (4) Kerations
- 125.** The procedures and safeguards for handling of hazardous substances are mentioned in which Act :
- (1) The Factories Act, 1948 (2) The Water Act, 1974
(3) The Environment Act, 1986 (4) The Air Act, 1981
- 126.** Mean of the population is denoted by :
- (1) \bar{x} (2) σ^2 (3) σ (4) μ
- 127.** Salim Ali is known world over for his contribution in :
- (1) Herpetology (2) Onchology (3) Ornithology (4) Ichthyology
- 128.** Which one among the following is *not* related with United Nations ?
- (1) WHO (2) SACEP (3) UNEP (4) Earth Scan
- 129.** Centre for Environmental Education is located at :
- (1) New Delhi (2) Ahmedabad (3) Coimbatore (4) Bhopal

130. The book "*Silent Spring*" published in 1960 was written by :

- | | |
|------------------------|-------------------|
| (1) Sunderlal Bahuguna | (2) Rachel Carson |
| (3) Salim Ali | (4) David Matthew |

131. Silviculture is about :

- | | |
|----------------------------------|--------------------------------|
| (1) Managing of silkworms | (2) Managing plantations |
| (3) Hatching of silkworm cocoons | (4) Growing trees in croplands |

132. An example of 'in-situ' conservation is :

- | | |
|----------------------|----------------------------|
| (1) Captive breeding | (2) Zoos |
| (3) Sacred groves | (4) Germ plasm collections |

133. Which equipment releases Ozone gas ?

- | | |
|-----------------|--------------------|
| (1) Gas stove | (2) Refrigerator |
| (3) Photocopier | (4) Microwave oven |

134. An alternative of chrome tanning is :

- | | |
|----------------------|-----------------------|
| (1) Sulphur tanning | (2) Vegetable tanning |
| (3) Chlorine tanning | (4) Sulphite tanning |

135. ENVIS centres are opened by Ministry of Environment to :

- (1) Dissiminate environmental information
- (2) Carry out environmental research
- (3) Impart training to students
- (4) Spread awareness among masses about environment

136. Which radioactive element is considered under indoor pollutant category ?
(1) U^{235} (2) N^{15} (3) C^{14} (4) Radon
137. Which State will *not* be benefitted by Sardar Sarovar Narmada project ?
(1) Gujarat (2) Rajasthan (3) Maharashtra (4) Karnataka
138. At present second largest contributor to green house effect on earth is :
(1) CH_4 (2) CO_2 (3) N_2O (4) CFCs
139. All the computers execute :
(1) Basic programs (2) Machine language program
(3) PL/1 program (4) COBOL program
140. For a large network, which one of the following topology is used ?
(1) Bus (2) Star (3) Ring (4) None of these
141. ISO in computer network stands for :
(1) International Standard Organization
(2) International Student Organization
(3) Integrated Service Organization
(4) Integrated Social Organization
142. On the issue of computers rebooting every time, the most common problem would be :
(1) Defective/bad memory (2) Bad sectors on hard drive
(3) Processor's overheating (4) Insufficient power supply

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143. F. D. D. I. is a :

- (1) Ringnet work
- (2) Star network
- (3) Mesh network
- (4) Bus based network

144. 'BAK' extension refers to :

- (1) Backup file
- (2) Audio file
- (3) Animation file
- (4) MS encarta file

145. In communication network, what supports two way traffic, but only one direction at a time ?

- (1) Simplex
- (2) Half duplex
- (3) Duplex
- (4) Multiplex

146. Amendments to Montreal protocol were taken in 1990 at :

- (1) Paris
- (2) London
- (3) Tokyo
- (4) Amsterdam

147. Forest Conservation Act was enforced in :

- (1) 1952
- (2) 1982
- (3) 1980
- (4) 1974

148. IPCC is concerned with :

- (1) Ban on ODS
- (2) Climate change
- (3) Biodiversity conservation
- (4) Trade of indangered species

149. The largest bioremediations project undertaken to treat oil spill was at :

- (1) Prince Island, Phillipines
- (2) Prince Willium Sound, Alaska
- (3) Kuwait shoreline
- (4) Exxon Valdez, Alaska

150. Ecolebelling of products started by Govt. of India in 1991 relates to :

- (1) Egg mark
- (2) ISO
- (3) Ecomark
- (4) LION

अभ्यर्थियों के लिए निर्देश

(इस पुस्तिका के प्रथम आवरण-पृष्ठ पर तथा उत्तर-पत्र के दोनों पृष्ठों पर केवल नीली/काली बाल-प्वाइंट पेन से ही लिखें)

1. प्रश्न पुस्तिका मिलने के 10 मिनट के अन्दर ही देख ले कि प्रश्नपत्र में सभी पृष्ठ मौजूद हैं और कोई प्रश्न छूटा नहीं है। पुस्तिका दोषयुक्त पाये जाने पर इसकी सूचना तत्काल कक्ष निरीक्षक को देकर सम्पूर्ण प्रश्नपत्र की दूसरी पुस्तिका प्राप्त कर लें।
2. परीक्षा भवन में लिफाफा रहित प्रवेश-पत्र के अतिरिक्त, लिखा या सादा कोई भी खुला कागज साथ में न लायें।
3. उत्तर-पत्र अलग से दिया गया है। इसे न तो मोड़ें और न ही विकृत करें। दूसरा उत्तर-पत्र नहीं दिया जायेगा। केवल उत्तर-पत्र का ही मूल्यांकन किया जायेगा।
4. अपना अनुक्रमांक तथा उत्तर-पत्र का क्रमांक प्रथम आवरण-पृष्ठ पर पेन से निर्धारित स्थान पर लिखें।
5. उत्तर-पत्र के प्रथम पृष्ठ पर पेन से अपना अनुक्रमांक निर्धारित स्थान पर लिखें तथा नीचे दिये वृत्तों को गाढ़ा कर दें। जहाँ-जहाँ आवश्यक हो वहाँ प्रश्न-पुस्तिका का क्रमांक तथा सेट का नम्बर उचित स्थानों पर लिखें।
6. ओ० एम० आर० पत्र पर अनुक्रमांक संख्या, प्रश्न-पुस्तिका संख्या व सेट संख्या (यदि कोई हो) तथा प्रश्न-पुस्तिका पर अनुक्रमांक संख्या और ओ० एम० आर० पत्र संख्या की प्रविष्टियों में उपरिलेखन की अनुमति नहीं है।
7. उपर्युक्त प्रविष्टियों में कोई भी परिवर्तन कक्ष निरीक्षक द्वारा प्रमाणित होना चाहिये अन्यथा यह एक अनुचित साधन का प्रयोग माना जायेगा।
8. प्रश्न-पुस्तिका में प्रत्येक प्रश्न के चार वैकल्पिक उत्तर दिये गये हैं। प्रत्येक प्रश्न के वैकल्पिक उत्तर के लिये आपको उत्तर-पत्र की सम्बन्धित पंक्ति के सामने दिये गये वृत्त को उत्तर-पत्र के प्रथम पृष्ठ पर दिये गये निर्देशों के अनुसार पेन से गाढ़ा करना है।
9. प्रत्येक प्रश्न के उत्तर के लिये केवल एक ही वृत्त को गाढ़ा करें। एक से अधिक वृत्तों को गाढ़ा करने पर अथवा एक वृत्त को अपूर्ण भरने पर वह उत्तर गलत माना जायेगा।
10. ध्यान दें कि एक बार स्याही द्वारा अंकित उत्तर बदला नहीं जा सकता है। यदि आप किसी प्रश्न का उत्तर नहीं देना चाहते हैं, तो सम्बन्धित पंक्ति के सामने दिये गये सभी वृत्तों को खाली छोड़ दें। ऐसे प्रश्नों पर शून्य अंक दिये जायेंगे।
11. रफ कार्य के लिये इस पुस्तिका के मुखपृष्ठ के अंदर वाला पृष्ठ तथा अंतिम खाली पृष्ठ का प्रयोग करें।
12. परीक्षा के उपरान्त केवल ओ० एम० आर० उत्तर-पत्र ही परीक्षा भवन में जमा करें।
13. परीक्षा समाप्त होने से पहले परीक्षा भवन से बाहर जाने की अनुमति नहीं होगी।
14. यदि कोई अभ्यर्थी परीक्षा में अनुचित साधनों का प्रयोग करता है, तो वह विश्वविद्यालय द्वारा निर्धारित दंड का/की भागी होगा/होगी।