



**A. G. High School and G. & D. Parikh Higher Secondary School**

Navrangpura, Ahmedabad - 380 009.

**First Semester Examination : 2014**

Date : 11-09-2014

Std. : 11

Marks : 100

Day : Thursday

Subject : Biology

Time : 3:00 Hrs.

**Instructions :-**

1. Select the correct answer from the given choices below each M.C.Q. and mark dark sport at an appropriate place in the OMR Sheet against each Q.No.
2. Each Question carry one (01) mark.
3. There are 100 questions in this question paper.
4. All questions are compulsory.

1. Ribosomal RNA is actively synthesized by -  
(A) Nucleoplasm (B) Nucleolar Organizer Region  
(C) Nuclear membrane (D) Nucleus
2. Which animal shows tissue level organization very first time ?  
(A) Echinodermata (B) Porifera  
(C) Annelida (D) Coelentrata
3. Which organ acts as a filter of blood & remove microbes.  
(A) Liver (B) Pancreas  
(C) Spleen (D) Kidney
4. Replication of DNA takes place during  
(A) S phase (B) G1 phase  
(C) M phase (D) G2 phase
5. Mucor belongs to -  
(A) Algae (B) Fungi  
(C) Protista (D) Monera
6. Two strands of DNA are joined with each other by -  
(A) Sulphur bond (B) Phosphate bond  
(C) Hydrogen bond (D) Ester bond
7. A bio-fertilizer in a paddy field ?  
(A) Cyanobacteria (B) Spirogyra  
(C) Anabena (D) Nostoc
8. Which is autoimmune disease ?  
(A) Cancer (B) Malaria  
(C) Hepatitis (D) Arthritis
9. Medulla of nerve fibre is made up of -  
(A) Lipid (B) Glyco-protein  
(C) Protein (D) Disaccharide
10. Which one is an appropriate pair ?  
(A) Hybridization : Honey bee (B) Explant : Selected plant organ  
(C) Sericulture : Earthworm (D) Cultivation : Poultry
11. Location of heart in Chordata.  
(A) Lateral sides (B) Posterior side  
(C) Ventral side (D) Dorsal side

12. Where the blood cells including lymphocytes are produced ?  
(A) In Lymph node (B) In Spleen  
(C) In Thymus (D) In Bone Marrow
13. Which method is used for protection of the preserved plant specimen ?  
(A) Fumigation (B) Pressng  
(C) Drying (D) Poisoning
14. Which is the important property of Water ?  
(A) Tastelessness (B) Polarity  
(C) Free flow (D) Colourlessness
15. Which antibody is present in more quantity in Colostrum ?  
(A) Ig - D (B) Ig - M  
(C) Ig - A (D) Ig - E
16. In which plants, embryo is never formed ?  
(A) Pteridbphytes (B) Bryophytes  
(C) Monocots (D) Algae
17. Which are the structural units of protein.  
(A) Fatty Acid (B) Nucleotide  
(C) Amine Acid (D) Monosaccharide
18. Which one is a membrane-less organelle ?  
(A) Mitochondria (B) Chloroplast  
(C) Golgi body (D) Ribosome
19. In STPs how the grit are removed ?  
(A) Boiling (B) Sedimentation  
(C) Filtration (D) Distillation
20. Which animals have cavities filled with blood ?  
(A) Arthropod (B) Porifera  
(C) Coelentrata (D) Annelida
21. Two strands of any DNA are \_\_\_\_\_ to each-other.  
(A) Parallel (B) Complementary  
(C) Similar (D) Unrelated
22. What is the result of union of macromolecules.  
(A) Organelles (B) Cell  
(C) Organ (D) Tissue
23. In case of plasmodium, fertilization occur in -  
(A) human saliva (B) human RBC  
(C) human WBC (D) elementary canal of Mosquito
24. Scientific name of Mahuda ?  
(A) Lentana Camera (B) Oriza sativa  
(C) Madhuca indica (D) Morus alba
25. Which one is a fat soluble Vitamin ?  
(A) B12 (B) A  
(C) C (D) D

26. It is a main component of Algal Cell- Wall  
(A) Cellulose (B) Pectin  
(C) Cuticle (D) Suberin
27. In callus culture, roots are developed by the effect of -  
(A) Glucose (B) Enzymes  
(C) Cytokinin (D) Auxin
28. Which plasma protein give Immunity ?  
(A) Fibrin (B) Heparin  
(C) Immunoglobulin (D) Albumin
29. Where the botanical gardens of the world are documented ?  
(A) IABG (B) ICBN  
(C) IABN (D) ICZN
30. Which mineral is useful for repairing of wornout cells ?  
(A) Ca (B) Fe  
(C) Zn (D) Mg
31. In which form the food is stored in Algae ?  
(A) Maltose (B) Sucrose  
(C) Glycogen (D) Starch
32. "Saliva from Mouth" is a  
(A) Cytoplasmic barrier (B) Physiological barrier  
(C) Protoplasmic barrier (D) Physical barrier
33. Which one is the main method for plant biotechnology ?  
(A) Tissue culture (B) Plant breeding  
(C) Mutation (D) Hormone treatment
34. How many types of RNA are known ?  
(A) 4 (B) 2  
(C) 1 (D) 3
35. Close type of blood circulatory system - means  
(A) Circulation of blood through true coelom.  
(B) Presence of haemocoel.  
(C) Circulation of blood through closed blood vessels.  
(D) PResence of blood in alveoli
36. How many new cells are formed by meiosis of a cell ?  
(A) 8 (B) 4  
(C) 2 (D) 1
37. Microtubules are made up of -  
(A) Tubulin (B) Chitin  
(C) Cuticle (D) Pectin
38. Todi drink is made from the extract of -  
(A) Rice (B) Palm  
(C) Mahuda (D) Bamboo

39. Population of different species, living within the same habitat, form -  
(A) Family (B) Biome  
(C) Biotic Community (D) Ecosystem
40. Which substance is used in cough syrup ?  
(A) Hashish (B) Cocaine  
(C) Heroin (D) Codeine
41. It is a triose sugar.  
(A) Glycerol (B) Galactose  
(C) Glyceraldehyde (D) Glucose
42. Which one is the smallest Gymnosperm ?  
(A) Zamia (B) Pinus  
(C) Cycus (D) Thuja
43. Which one is appropriate pair ?  
(A) Honey : Stomach gland (B) Drone : Only reproduction  
(C) Pomfret : Fresh water (D) Rohu : Edible marine
44. Which one possesses flagellum ?  
(A) Rhizobium (B) Paramoecium  
(C) Plasmodium (D) Euglena
45. Which protein is present in hair, horns, nail & feathers.  
(A) Creatin (B) Ceratene  
(C) Keratin (D) Casein
46. By irregular growth of which tissue, Sarcoma occurs ?  
(A) Mesodermal tissue (B) Bone tissue  
(C) Epithelial tissue (D) Blood tissue
47. Phosphorus is absent in -  
(A) NAD (B) RNA Polymerase  
(C) RNA (D) FAD
48. Worker honey-bees means -  
(A) Fertile male (B) Infertile male  
(C) Fertile female (D) Infertile female
49. Which organelle is found only in Animal cells ?  
(A) Centriole (B) Ribosome  
(C) Chloroplast (D) Lysosome
50. Two sequential amino acids are joined with each other by -  
(A) Disulphide bond (B) Peptide bond  
(C) Hydrogen bond (D) Ionic bond
51. Iron is absent in  
(A) Cytochrome (B) Myoglobin  
(C) Chlorophyll (D) Haemoglobin
52. Which microorganism is useful to make bread ?  
(A) Lacto-bacillus (B) Mucor  
(C) Aspergillus (D) Yeast

53. Where Indroda Park is located ?  
(A) Gandhinagar (B) Bhuj  
(C) Junagadh (D) Sasan Gir
54. How many type of t-RNA are found in Cytoplasm ?  
(A) 03 (B) 64  
(C) 04 (D) 61
55. Complete digestive track means -  
(A) Mouth is present (only) (B) track opens at both the ends  
(C) Anus only in present (D) one opening acts two ways
56. It is a short chained unsaturated fatty acid -  
(A) Stearic Acid (B) Oleic Acid  
(C) Crotonic Acid (D) Butyric Acid
57. Which plant is having biggest flower  
(A) Rafflesia (B) Sequoia  
(C) Rhynia (D) Strigula
58. Blood cancer is also called -  
(A) Lymphoma (B) Sarcoma  
(C) Carcinoma (D) Leukemia
59. Mitochondria is a site for -  
(A) Photolysis (B) Kreb's Cycle  
(C) Glycolysis (D) Calvin Cycle
60. Crossing over occurs at  
(A) C entriole (B) Centromere  
(C) Chiasmata (D) Satellite
61. Fructose is a  
(A) Aldo Pentose (B) Keto Pentose  
(C) Aldo Hexose (D) Keto Hexose
62. True coelom is present in -  
(A) Leech (B) Tapeworm  
(C) Ascaris (D) Hydra
63. What is obtained from Cannabis indica ?  
(A) Opium (B) Nicotine  
(C) Ganja (D) Codeine
64. Time by time, due to increase in diversity, what is formed ?  
(A) new organism (B) new species  
(C) new genera (D) new ecosystem
65. What is the name of innerfolds of Mitochondria  
(A) Cristae (B) Cisternae  
(C) Vesicle (D) Vacuole
66. Which is the structural unit of Nucleic Acid ?  
(A) Nitrogen base (B) Nucleotide  
(C) Pentose sugar (D) Phosphoric Acid

67. Study of Museology is provided at -  
(A) Jabalpur (B) Pune  
(C) Vadodara (D) Mumbai
68. Which polysaccharide is formed as a stored food in Animal cells ?  
(A) Pectin (B) Chitin  
(C) Cellulose (D) Glycogen
69. Which of the following organs is situated near heart and below the sternum ?  
(A) Thymus (B) Tonsil  
(C) Adenoids (D) Spleen
70. Which organelle is associated with intracellular digestion ?  
(A) Peroxizome (B) Ribosome  
(C) Mesozome (D) Lysozome
71. Which organism can survive extreme salinity ?  
(A) Bryophytes (B) Xerophytes  
(C) Halophiles (D) Hydrophytes
72. LAB increases the quality of Vitamin -  
(A) C (B) B2  
(C) A (D) B12
73. Which mineral element is very important for the growth of bones and reproduction ?  
(A) Cu (B) Mn  
(C) Zn (D) Mg
74. Which cavity is found in Mollusca ?  
(A) Mantle (B) Pseudocoelom  
(C) Coelenteron (D) Spongocoel
75. Which glands secrete Peptide hormones ?  
(A) Adernal (B) Pitutiary, Pancreas  
(C) Testies (D) Ovaries
76. What is present in the mouth of mollusca to grind food ?  
(A) Redulla (B) Ostia  
(C) Teeth (D) Hook
77. Mitosis occurs in  
(A) an Egg cell (B) Human Erythrocytes  
(C) Somatic cell (D) Microspore Mother Cell
78. Which nitrogen base is absent in DNA ?  
(A) Guanine (B) Thymine  
(C) Cytosine (D) Uracil
79. Herbarium sheet is used for -  
(A) Writting (B) Mouning  
(C) Pressing (D) Drying
80. Chitin is presnet as a componenet of cell wall of -  
(A) Bacteria (B) Protozoa  
(C) Fungus (D) Algae

81. What is the scientific name of Barmasi ?  
(A) *Zea maize* (B) *Catharanthus roseus*  
(C) *Aspergillus niger* (D) *Lantana camera*
82. Which micro-organism is used to produce amylase in the industry ?  
(A) Bacteria (B) Virus  
(C) Algae (D) Fungus
83. Which is the real Fish ?  
(A) Dogfish (B) Silverfish  
(C) Whale fish (D) Jelly fish
84. Which are the main phagocytes.  
(A) Mast cells (B) Chondrioblast  
(C) Macrophage (D) Thrombocytes
85. Which is the site for synthesis of glyco-proteins ?  
(A) Golgi body (B) Lysozome  
(C) Ribosome (D) Nucleus
86. Bionematicides are used to control -  
(A) Moss (B) Nematodes  
(C) Virus (D) Insects
87. Mysterious code language is present in -  
(A) Centromere (B) Enzyme  
(C) Hormone (D) Gene
88. Crossing over takes place during -  
(A) Diplotene (B) Leptotene  
(C) Pachytene (D) Zygotene
89. Euglena belongs to  
(A) Protozoa (B) Monera  
(C) Lichen (D) Thalophyta
90. What is the main aim of Embryo-Culture ?  
(A) To isolate desired Protoplast  
(B) To develop Genetically Modified Plants  
(C) To produce alkaloids  
(D) To develop plantlets from the dormant seeds.
91. What is the molecular formula of phosphoric acid ?  
(A)  $H_2PO_5$  (B)  $H_3PO_4$   
(C)  $H_3P_2O_8$  (D)  $H_4P_2O_8$
92. Pseudo-coelom is present in -  
(A) Earthworm (B) Leech  
(C) Ascaris (D) Hydra
93. During growth, the total number of cells -  
(A) Decreases (B) Increases  
(C) Remains unchanged (D) Increase or Decrease

94. Which culture method is used to cultivate the plants like "Orchids" ?  
(A) Embryo culture (B) Seed culture  
(C) Callus culture (D) Wax culture
95. Which is the shortest phase of cell-cycie ?  
(A)  $S$  (B)  $G_1$   
(C)  $G_2$  (D)  $M$
96. From which part of opium poppy, the drug is obtained ?  
(A) Undeveloped flowers (B) Dry roots  
(C) Leaves (D) Dry seeds
97. During which process, flocks are formed ?  
(A) Callus culture (B) Sewage treatment  
(C) Wine production (D) Biogas production
98. What is the scientific name of onion ?  
(A) *Helianthus annuus* (B) *Hibiscuss rosa-sinesis*  
(C) *Alium cepa* (D) *Vinca rosea*
99. Where callus is maintained ?  
(A) On Wax-Honey jel (B) In Nutrient medium  
(C) On Agarose jel (D) On Agar-Agar gel
100. Which test is useful for Typhoid diagnosis ?  
(A) Vidal test (B) PAP smear test  
(C) W.B. Test (D) ELISA test

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