

Objective  
Paper Code  
**6465**

Intermediate Part First - 903  
**BIOLOGY (Objective) GROUP - I**  
Time: 20 Minutes Marks: 17

Roll No. : \_\_\_\_\_



Q.No.1

You have four choices for each objective type question as A, B, C and D. The choice which you think is correct, fill the relevant circle in front of that question number on computerized answer sheet. Use marker or pen to fill the circles. Cutting or filling two or more circles will result in zero marks in that question. Attempt as many questions as given in objective type question paper and leave other circles blank.

FBD-CA-22

S.#	Questions	A	B	C	D
1	Yeasts are unicellular:	Algae	Protozoans	Fungi	Bacteria
2	Entamoeba histolytica causes:	Dysentery	Fever	Cholera	Hepatitis
3	Bacterial pathogenicity is due to:	Capsule	Cell wall	Cyst	Spore
4	Bacteriophage replicates only in cells:	Animal	Plant	Bacteria	Fungi
5	The number of chromosomes in drosophila melanogaster is:	08	14	16	26
6	Enzymes lower down the energy of:	Kinetic	Activation	Potential	Ionic
7	Cotton is the pure form of:	Glycogen	Waxes	Cellulose	Amino acids
8	In human body the amount of iron is:	4%	0.4%	0.04%	0.004%
9	Which is not granulocytes?	Monocytes	Neutrophils	Eosinophils	Basophils
10	The right atrium receives deoxygenated blood from these parts of the body except:	Brain	Liver	Lungs	Kidneys
11	The respiratory system is the most efficient in:	Man	Birds	Reptiles	Fish
12	Which animal has no need for a gall bladder?	Cat	Dog	Lion	Goat
13	Functional group of chlorophyll 'a' is:	CH <sub>3</sub>	CHO	COOH	OH
14	Lactic acid is formed in these except during extreme physical activities:	Man	Fish	Horse	Cat
15	These are arachnids except:	Scorpion	Beetles	Ticks	Mites
16	Which one is not a pseudocoelomate?	Ascaris	Earthworm	Ancylostoma	Round worms
17	An ovule is an integumented indehiscent:	Micro-sporangium	Seed	Sporogonium	Mega-sporangium

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**Intermediate Part First**  
**BIOLOGY (Subjective) GROUP - I**  
Time: 02:40 Hours Marks: 68

Roll No. \_\_\_\_\_

**SECTION - I**

**2. Write short answers to any EIGHT parts.**

**FBD-91-22**

16

- (i) How basic proteins play their role in combined form with nucleic acids?
- (ii) Why enzymes need optimum pH for their proper functioning? Give one example.
- (iii) Why some enzymatic reactions occur in series to form the final products? Explain briefly.
- (iv) Which model for enzyme substrate interaction is more supported? Discuss briefly that model.
- (v) Name four diseases caused by fungi.
- (vi) How karyogamy is different from plasmogamy?
- (vii) Write four characteristics of mammals.
- (viii) Give economic importance of mollusca.
- (ix) Define the term regeneration and name animal which exhibit it.
- (x) What are coral reefs and where they are found?
- (xi) Differentiate between chlorophyll-a and chlorophyll-b.
- (xii) What are the differences between alcoholic and lactic acid fermentation?

**3. Write short answers to any EIGHT parts.**

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- (i) Why organ system is less complex in plants as compared to animals?
- (ii) What are adverse effects of use of chemicals during its use to control pests?
- (iii) What is difference between cisternae and cristae?
- (iv) Why mitochondria are called self-replicating organelle?
- (v) From where the Giant Amoeba obtain energy?
- (vi) How ciliates differ from protozoans?
- (vii) Name the parasitic flagellates and disease caused by it and how it is transmitted?
- (viii) Why fungus like protists are not fungi?
- (ix) Differentiate between antheridiophore and archegoniophore.
- (x) Write names of two extinct and two living members of psilopsida.
- (xi) Define guttation. What factors affect it?
- (xii) Write role of lymphatic system in defense of body.

**4. Write short answers to any SIX parts.**

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- (i) Write short note on polio.
- (ii) Define plasmids. What is its use?
- (iii) Write any two digestive functions of liver.
- (iv) What is ulcer? Write few lines on it.
- (v) Differentiate ectoparasites and endoparasites with examples.
- (vi) What is the function of parabronchi in birds?
- (vii) Define photorespiration. Give its consequences.
- (viii) Define Calvin Benson Cycle.
- (ix) What the role spiracles play in cockroach respiration?

**SECTION - II**

Attempt any THREE questions. Each question carries 08 marks.

5. (a) Why is some diseases vaccination is used while for others preventive measures are adopted?  
(b) Discuss major solutes and their role in blood plasma.
6. (a) Explain the importance of carbon in living organisms.  
(b) Describe different methods of asexual reproduction in fungi.
7. (a) How does physical methods differ from chemical methods to control bacteria?  
(b) How does evolution of microphyll differ from evolution of megaphyll?
8. (a) Write a note on five kingdom classification system of Robert Whittaker.  
(b) Sketch the process of glycolysis. (No description required)
9. (a) What is endoplasmic reticulum? Write its types and functions.  
(b) Describe digestion of food in small intestine.

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