BIOLOGY GROUP: FIRST 11th CLASS – 12021 **D4K – 4!-2!** <u>OBJECTIVE</u>

TIME: 20 MINUTES

MARKS: 17

NOTE: You have four choices for each objective type question as A, B, C and D. The choice which you think is correct, fill that circle in front of that question number. Use marker or pen to fill the circles. Cutting or filling two or more circles will result in zero mark in that question.

QUI	ESTION NO. 1
1	The study of fossils is called
	(A) Histology (B) Genetics (C) Palaeontology (D) Morphology
2	Haemoglobin molecule exhibits which structural organization
	(A) Primary structure (B) Secondary structure (C) Tertiary structure (D) Quaternary structure
3	Enzymes important in photosynthesis are found in
	(A) Chloroplast (B) Mitochondria (C) Nucleus (D) Vacuole
4	Cyclosis and amoeboid movements are because of
	(A) Microtubules (B) Microfilaments (C) Intermediate filaments (D) None of these
5	Amoeba belongs to kingdom
	(A) Protista (B) Plantae (C) Animalia (D) Fungi
6	A bacterium without any flagellum is called
	(A) Peritrichous (B) Lophotrichous (C) Atrichous (D) Monotrichous
7	Based on molecular data Euglenoids are thought to be closely related to
	(A) Brown algae (B) Green algae (C) Diatoms (D) Zooflagellates
8	Unicellular fungi which is non hyphal is
	(A) Yeast (B) Mushroom (C) Alternaria (D) Penicillium
9	How many years before first complete seed appeared?
	(A) 350 million year ago (B) 365 million year ago (G) 300 million year ago (D) 370 million year ago
10	A free living flatworm with ciliated outer surface is
	(A) Round worm (B) Pin worm (C) Planaria (D) Coral
11	The insects that move in large number and cause damage to standing crops is
	(A) Fleas (B) Bugs (C) Grasshopper (D) Locusts
12	Yellow to orange colour pigments present in chloroplast are
	(A) Carotenoids (B) Xanthophylls (C) Carotenes (D) Chlorophyll b
13	Glycolysis takes place in
	(A) Cytosol (B) Mitochondria (C) Nucleus (D) Vacuole
14	Carbohydrate digesting enzyme amylopsin digest starch into
	(A) Lactose (B) Sucrose (C) Maltose (D) Fructose
15	Iron containing protein pigment present in muscle fibre is
	(A) Haemoglobin (B) Myoglobin (C) Haemocyanin (D) Phycobilin
16	Which type of white blood cell stays 10 to 20 hours in blood then become macrophages?
	(A) Monocyte (B) Neutrophil (C) Basophil (D) Eosinophil
17	The heart of cockroach has how many chambers?
	(A) 11 (B) 12 (C) 13 (D) 14

11th CLASS - 12021 BIOLOGY SUBJECTIVE TIME: 2.40 HOURS GROUP: FIRST **MARKS: 68** QUESTION NO. 2 Write short answers of any Eight (8) parts of the following 16 (1) Differentiate between anabolic and catabolic reaction (2) Define cofactor and write down its roles (3) Define Induce Fit Model of enzyme catalysis and who proposed it? (4) Define inhibitors and give two examples (5) Differentiate between endo and ectomycorrhizae (6) Define ergotism (7) Write down two characteristics of chordata (8) What are gemmules? (9) Write down two adaptations for parasitic mode of life in Platyhelminthes (10) What is radula and in which phylum it is present? (11) Differentiate between chlorophyll a and chlorophyll b by their molecular formula (12) What is alcohlic fermentation? QUESTION NO. 3 Write short answers of any Eight (8) parts of the following 16 (1) Define deductive reasoning with example (2) What is Pasteurization? (3) Differentiate between Phagocytosis and Pinocytosis (4) What is Cytosol? (5) What are choanoflagellates? (6) What is meant by pellicle? (7) What are Euglenoids? (8) Give importance of Algae (9) Define double fertilization (10) Write down any two differences between monocot and dicot (11) Define pressure flow theory (12) What is cell mediated response? QUESTION NO. 4 Write short answers of any Six (6) parts of the following 12 (1) What is Herpes simplex? (2) What are misuse of antibiotic? Give example (3) What are the causes of Jaundice and Gall-stones in man? (4) Write the composition of saliva in man (5) Write Parasitic Nutrition in plants (6) What is the composition of inhaled and exhaled air, in breathing (7) Define carcinoma. Give its causes (8) Why the larynx is called Voice-Box? (9) Write Mechanism of inspiration in man **SECTION-II** Note: Attempt any Three questions from this section $8 \times 3 = 24$ Q.5 (A) Describe biological method to solve a biological problem (B) Describe Cohesion Tension theory for transport of water Q.6 (A) Describe the primary and secondary structure of protein (B) Write a note on economic losses due to fungi Q.7 (A) Describe various physical and chemical methods to control bacteria (B) Discuss at least four steps for the evolution of seed habit Q.8 (A) Give labelled sketch of infection cycle of HIV (B) Describe non-cyclic photophosphorylation

(B) Discuss the absorption of food in small intestine

Q.9 (A) Write a complete note on lysosome. Explain its phagocytic role with the help of diagram