

**BIOLOGY 2022**

(For Fresh Candidates of 2022 and Failure Candidates of 2021)

Max. Marks: 60

Time: 3 Hour

**SECTION "A" MULTIPLE CHOICE QUESTIONS (MCQs)**

Marks: 24

**NOTE:** (i) Attempt all the Questions of this Section.

(ii) Do not copy down the part questions. Write only the answer against the proper number of the Question and its part according to the question Paper. (iii) Each question carries 1 Mark.

**I. Choose the correct Answer for each from the given question:**

(i). Science of identification and classification of organism is:

- \* Histology
- \* Cytology
- \* Taxonomy ✓
- \* Anatomy

(ii). Scientific name of frog is:

- \* Palaeon
- \* Rana tigrina ✓
- \* Periplaneta
- \* Pheretima

(iii). Volvox is a polyphyletic genus which belongs to:

- \* Green algae ✓
- \* Red algae
- \* Brown algae
- \* None of these

(iv). Biological method involves all of the following, except

- \* Data collection
- \* Observation
- \* Experiment
- \* Proportion ✓

(v). Field of research that examines mathematical representation of biological system, is called:

- \* Ratio ✓
- \* Proportion
- \* Mathematical Biology
- \* Law

(vi). These are involved in classification, except:

- \* Analogous
- \* Homologous
- \* Cytology
- \* Genetics ✓

(vii). Cell organelle found in animal cell and help in intracellular digestion:

- \* Lysosomes ✓
- \* Ribosomes
- \* Mitochondria
- \* Golgi apparatus

(viii). The comparison of two values is called:

- \* Ratio ✓
- \* Proportion
- \* Graph
- \* Table

(ix). Members of this kingdom have cell wall and are all heterotrophic:

- \* Monera
- \* Protista
- \* Plantae
- \* Fungi ✓

(x). Sequence of physiological changes by which cell commit suicide, is called:

- \* Apoptosis ✓
- \* Necrosis
- \* Apomixes
- \* None of these

(xi). The point where the enzyme is most active, is known as:

- \* Neutral pH
- \* Acidic pH
- \* Basic pH
- \* Optimum pH ✓

(xii). Stage of aerobic respiration takes place at the cristae of mitochondria, is called:

- \* Electron transport chain ✓
- \* Glycolysis

\* Krebs's cycle

\* C<sub>3</sub> cycle

(xiii). Phenomenon in which pair of homologous chromosome fails to separate is called:

- \* Non disjunction ✓
- \* Terminalization
- \* Synapsis
- \* Linkage

(xiv). Each mole of ATP stores energy:

- \* 7.3 kcal ✓
- \* 7.3 kj
- \* 17.3 kcal
- \* 17.3 kj

(xv). Chemical reaction requires these particular conditions to carry down at Proper rate:

- \* Temperature and nature
- \* Nature and pressure
- \* Nature and structure
- \* Temperature and pressure ✓

(xvi). Deficiency of vitamin - K causes the disease of:

- \* Rickets
- \* Anemia ✓
- \* Scurvey
- \* Beriberi

(xvii). Movement of Water molecules from the area of higher potential to the area of lower water potential, is called:

- \* Diffusion
- \* Osmosis ✓
- \* Active transport
- \* Water potential

(xviii). Secondary cell wall is made up of:

- \* Pectin and Cellulose
- \* Cellulose and Protein
- \* Cellulose and Lignin ✓
- \* Lignin and Pectin

(xix). All factors affect enzyme's activity, except:

- \* substrate concentration
- \* Organic solvent ✓
- \* Temperature
- \* pH

(xx). These are involved in the clotting of blood:

- \* Platelets ✓
- \* Haemoglobin
- \* Albumin
- \* Globulin

(xxi). The movement of organic material (food) takes place through:

- \* Xylem ✓
- \* Vessels
- \* Tracheid
- \* Phloem

(xxii). In human digestive system, trachea and esophagus both connect to the:

- \* Large intestine
- \* Stomach
- \* Pharynx ✓
- \* Rectum

(xxiii). Splitting of water in presence of light, is called:

- \* Hydrolysis
- \* Glycolysis
- \* Photolysis ✓
- \* None of these

(xxiv). Metabolic reactions are:

- \* Constructive
- \* Destructive
- \* Inhibiting
- \* None of these

The options of the above question in the Examination Paper is may be wrong correct options may are the following:

- \* Constructive
- \* Destructive
- \* Inhibiting
- \* I and II both ✓