



BOARD OF INTERMEDIATE & SECONDARY EDUCATION, HYDERABAD

Excellence – Equity – Empathy

Time: 2 Hours

BIOLOGY MODEL PAPER (CLASS IX)

Marks: 60

Condensed syllabus

SECTION-A

MULTIPLE CHOICE QUESTIONS (MCQ's)

Marks 30

Q.NO: 1 Choose the correct answers for each from the given options.

- (1) Study of remote past organic life, with the help of fossils is _____
(a) Taxonomy (b) Entomology (c) Palaeontology (d) Histology
- (2) Similar cells combine together to form _____
(a) Organ (b) Tissue (c) System (d) Organ System
- (3) The Scientific name of frog is _____
(a) Palaeon (b) *Rana tigrina* (c) Periplaneta (d) Pheretima
- (4) Biological method involves all of the following except _____
(a) Data Collection (b) Observation (c) Proportion (d) Experiment
- (5) Quantitative observation is the use of _____
(a) Senses (b) Guess (c) Equipment (d) Ratio
- (6) In five Kingdom system viruses are placed in _____
(a) Plantae (b) Monera (c) Protista (d) None of these
- (7) Members of Kingdom have cell wall and heterotrophic are _____
(a) Monera (b) Protista (c) Fungi (d) Plantae
- (8) Which process allows movement in and out of cell _____?
(a) Diffusion (b) Osmosis (c) Active transport (d) None of these
- (9) Stage of mitosis in which chromatids reach the poles and their movement ceases is _____
(a) Prophase (b) Metaphase (c) Telophase (d) Anaphase
- (10) Fundamental molecule produced during photosynthesis is _____
(a) Amino acid (b) Glucose (c) Fatty acid (d) Nucleotide
- (11) In human heart, blood returning from lungs first drains into _____
(a) Left atrium (b) Left ventricle (c) Right atrium (d) Right ventricle
- (12) Which of these are involved in clotting of blood _____?
(a) Platelets (b) Haemoglobin (c) Albumin (d) Globulin
- (13) Deficiency of vitamin K causes _____
(a) Rickets (b) Scurvy (c) Anaemia (d) Beriberi
- (14) Period of rapid growth and development is called _____
(a) Childhood (b) Adult hood (c) Adolescence (d) Both a and b
- (15) All are sources of calcium except _____
(a) Red meat (b) Green leafy vegetables (c) Broccoli (d) Nuts
- (16) Fundamental molecule produced in photosynthesis is _____
(a) Glucose (b) Amino acid (b) Fatty acid (d) Nucleotide
- (17) Loss of electron and proton is called _____
(a) Oxidation reaction (b) Reduction reaction
(c) Redox reaction (d) All of these
- (18) Splitting of water molecules in presence of light is called _____
(a) Glycolysis (b) Hydrolysis (c) Photolysis (d) None of these

- (19) Enzymes are _____ in nature
(a) Steroid (b) Protein (c) Lipid (d) Carbohydrate
- (20) Plastids are of _____ types.
(a) Two (b) Four (c) Three (d) Five
- (21) Function of the rough endoplasmic reticulum is _____
(a) Aerobic respiration (b) Intra cellular digestion
(c) Synthesis of Proteins (d) Synthesis of steroids
- (22) Which one is responsible for high resolution of the electron microscope----- ?
(a) High magnification (b) short wavelength of electron beam
(c) Use of heavy metals strain (d) Very thin section
- (23) Movement of organic materials takes place through _____
(a) Xylem (b) Vessels (c) Tracheids (d) Phloem
- (24) Which of these are involved in blood clotting _____ ?
(a) Platelets (b) Haemoglobin (c) Albumin (d) Globulin
- (25) Root hairs are most important to a plant because they _____
(a) Store Starch (b) Contain xylem (c) Increase surface area for absorption
(d) Provide habitat for nitrogen fixing bacteria
- (26) Part of root between epidermis and endodermis is called _____
(a) Xylem (b) Root hair (c) Phloem (d) Cortex
- (27) _____ gas is the by-product of photosynthesis
(a) Carbon dioxide (b) Nitrogen oxide (c) Oxygen (d) Hydrogen
- (28) Biodiversity is effected with _____
(a) Pollution (b) Deforestation (c) Over hunting (d) All of these
- (29) In data organization, which method is mostly useful _____ ?
(a) Table (b) Graph (c) Ratio (d) Both a and b
- (30) Rickets disease develop due to the deficiency of vitamin _____
(a) A (b) B (c) C (d) D



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SECTION-B

SHORT ANSWERS

Marks 18

NOTE: Answer any SIX of the following questions. Each question carries 03 marks.

- QNO:2 What is socio-biology ?
- QNO:3 Why Biology is named as multidimensional subject ?
- QNO:4 Why experiment is necessary for theory ?
- QNO:5 What is binomial nomenclature ?
- QNO:6 Why mitochondria is also called power house of cell ?
- QNO:7 Describe prophase.
- QNO:8 Why mitosis is necessary for growth?
- QNO:9 What are the prokaryotic cells ?
- QNO:10 Why enzymes are specific in nature?

SECTION-C

DESCRIPTIVE ANSWERS

Marks 12

NOTE: Answer any two of the following questions Each question carry 06 marks

- Q.NO.11 What is photosynthesis? Describe phases of photosynthesis.
- QNO:12 Describe in detail five Kingdom classification system.
- QNO:13 Write a detail note on Animal Tissues.