

BIOLOGY PAPER-I (NEW SCHEME) GROUP-I

TIME ALLOWED: 20 Minutes

OBJECTIVE

MAXIMUM 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 bubble in front of that question number. Use marker or pen to fill the bubbles. Cutting or filling two or more bubbles will result in zero mark in that question. Attempt as many questions as given in objective type question paper and leave others blank. No credit will be awarded in case BUBBLES are not filled. Do not solve questions on this sheet of OBJECTIVE PAPER.

Q.No.1

- (1) _____ is employed in treatment of cancer.
 - (A) Antibiotics and vaccination
 - (B) Chemotherapy and cloning
 - (C) Gene therapy
 - (D) Radiotherapy and chemotherapy
- (2) _____ is not a Terpenoid.
 - (A) Rubber
 - (B) Steroids
 - (C) Terpenes
 - (D) Waxes
- (3) An activated enzyme consisting of polypeptide chain and a cofactor is known as:-
 - (A) Holoenzyme
 - (B) Apoenzyme
 - (C) Coenzyme
 - (D) Prosthetic group
- (4) Glyoxysomes are most abundant in:-
 - (A) Human Blood
 - (B) Plant seedlings
 - (C) Liver cells
 - (D) Microorganisms
- (5) Influenza viruses are:-
 - (A) Enveloped RNA viruses
 - (B) Non enveloped RNA viruses
 - (C) DNA enveloped viruses
 - (D) DNA naked viruses
- (6) Cysts are dormant, thick-walled, desiccation resistant forms and develop during:-
 - (A) Late stage of cell growth
 - (B) Differentiation of vegetative cells
 - (C) Differentiation of reproductive cells
 - (D) During conjugation
- (7) One of the most unusual protist phyla is that of:-
 - (A) Zooflagellates
 - (B) Euglenoids
 - (C) Dinoflagellates
 - (D) Apicomplexa
- (8) Reindeer moss is a:-
 - (A) Mycorrhizae
 - (B) Bryophyta
 - (C) Lichen
 - (D) Protista
- (9) Clitoria ternatea is used against:-
 - (A) Insect bite
 - (B) Dog bite
 - (C) Cat bite
 - (D) Snake bite
- (10) In sponges asexual reproduction takes place by budding. The internal buds are called:-
 - (A) Globules
 - (B) Gemmules
 - (C) Endosperm
 - (D) Cyst
- (11) Some of colonial members of Cnidaria have upto five different types of zooids performing different functions for the colony e.g.:-
 - (A) Physalia
 - (B) Paramecium
 - (C) Aurelia
 - (D) Actinia
- (12) In the first step of the citric acid cycle, acetyl CoA reacts with oxaloacetate to form:-
 - (A) Pyruvate
 - (B) Citrate
 - (C) NADH
 - (D) FADH₂
- (13) Haem portion of haemoglobin is also a porphyrin ring but containing an iron atom instead of:-
 - (A) Nitrogen atom
 - (B) Potassium atom
 - (C) Sulphur atom
 - (D) Magnesium atom
- (14) HCl is secreted by following gastric cells of stomach:-
 - (A) Oxyntic cells
 - (B) Chief cells
 - (C) Mucous cells
 - (D) Zymogenic cells
- (15) _____ have most efficient respiratory system.
 - (A) Fish
 - (B) Amphibians
 - (C) Birds
 - (D) Mammals
- (16) After a fatty meal, fat globules may make up:-
 - (A) 10 % of the lymph
 - (B) 1 % of the lymph
 - (C) 15 % of the lymph
 - (D) 1.5 % of the lymph
- (17) A hormone released by mesophyll cells at high temperature is called:-
 - (A) Acetic acid
 - (B) Abscissic acid
 - (C) Hydrochloric acid
 - (D) Sulphuric acid

INTERMEDIATE PART-I (11th CLASS)**BIOLOGY PAPER-I (NEW SCHEME) GROUP-I**

TIME ALLOWED: 2.40 Hours

SUBJECTIVE

MAXIMUM MARKS: 68

NOTE: - Write same question number and its part number on answer book, as given in the question paper.**SECTION-I****2. Attempt any eight parts.****8 × 2 = 16**

- (i) Define Biotechnology and Microbiology.
- (ii) Differentiate between Hypothesis and Theory.
- (iii) Write down the cause of measles and small pox.
- (iv) Write the effect of temperature on enzyme action.
- (v) Differentiate between Binding site and Catalytic site of an enzyme.
- (vi) Differentiate between Holoenzyme and Apoenzyme.
- (vii) What is Syrinx? Where it is present?
- (viii) What is the Notochord? Write down its function.
- (ix) Differentiate between Ecdysis and Metamorphosis.
- (x) Write the four names of harmful insects.
- (xi) Differentiate between obligate parasites and facultative parasites.
- (xii) Differentiate between Plasmogamy and Karyogamy.

3. Attempt any eight parts.**8 × 2 = 16**

- (i) Write down misuses of Antibiotics.
- (ii) Give two characteristics of Giant Amoeba.
- (iii) What are Choanoflagellates?
- (iv) Why Euglenoids are placed in Algae as well as in Protozoa?
- (v) Differentiate between Fungi like Protists and Fungi.
- (vi) Differentiate between Microphylls and Megaphyll leaves.
- (vii) What are essential and non-essential parts of flower?
- (viii) Write down phases of aerobic cellular respiration.
- (ix) Differentiate between Absorption spectrum and Action spectrum.
- (x) Name three pairs of salivary glands with their location.
- (xi) What is Detritus Feeding? Give an example.
- (xii) Give name of hormones secreted by digestive system.

4. Attempt any six parts.**6 × 2 = 12**

- (i) Differentiate between Prokaryotic and Eukaryotic.
- (ii) Differentiate between Mononucleate and Binucleate cell. Give examples.
- (iii) What do you mean by heat of vaporization of water?
- (iv) Differentiate between plasmolysis and deplasmolysis.
- (v) Define Cohesion Tension Theory.
- (vi) What are Peroxisomes? Give their functions.
- (vii) Differentiate between Haemoglobin and Oxyhaemoglobin.
- (viii) Differentiate between Inspiration and Expiration.
- (ix) What are the symptoms of Asthma?

SECTION-II**NOTE: - Attempt any three questions.****3 × 8 = 24**

- 5.(a) Write a comprehensive note on drug treatment and gene therapy. 4
- (b) Give detailed account of Oedema and Thalassaemia. 4
- 6.(a) Give importance of Water. 4
- (b) Discuss mutualistic symbiotic association of fungi. 4
- 7.(a) Give the structure and functions of Mitochondria. 4
- (b) Write a note on absorption of food in small intestine. 4
- 8.(a) Describe structure of a Bacteriophage. 4
- (b) Sketch different steps of Glycolysis. 4
- 9.(a) Give physical methods to control microorganisms. 4
- (b) Give the adaptation in Bryophytes for land habitat. 4