

ANNUAL EXAM (2023-24)

Class-XI

Time:-3 hours

Subject-BIOLOGY

M.M.-70

Objective Type Questions:-

1×20=20

1) What is the value of R.Q. when organic acids are respiratory material ?

- (a) Unity ~~(b) More than unity~~
(c) Less than unity (d) None of these

2) The universal hydrogen acceptor is-

- (a) NAD (b) ATP
(c) CoA ~~(d) TPP~~

3) Net gain of ATP during glycolysis is:-

- (a) Six ~~(b) Eight~~
(c) Two (d) Four

4) Splitting of water in Photosynthesis is called ?

- (a) Dark reaction ~~(b) Photolysis~~
(c) Electron transfer (d) None

5) Oxygen evolved during Photosynthesis comes from-

- ~~(a) Water~~ (b) Atmosphere
(c) Carbon dioxide (d) Soil

6) Nissl bodies are mainly composed of-

- (a) Protein and Lipids (b) DNA & RNA
(c) Nucleic acid and SER ~~(d) Ribosome and ER~~

7) Chlorophyll in chloroplast is located in-

- (a) Grana (b) Pyrenoid
(c) Stroma ~~(d) Both grana and stroma.~~

P.T.O.

- 8) Cristae are associated with which of the following?
(a) Mitochondria (b) Cytoplasm
(c) Protoplasm (d) E.R.
- 9) Chromosome with terminal centromere is called-
(a) Telocentric (b) Acrocentric
(c) Metacentric (d) Submetacentric
- 10) The shape of Bacillus bacteria is:-
(a) Round (b) Elliptical
(c) Ovoid (d) Rod shaped
- 11) Secondary growth helps the plant to develop-
(a) Length (b) In girth
(c) More branches (d) All of these
- 12) A horizontal underground stem is called-
(a) Corm (b) Phylloclade
(c) Rhizome (d) Rhizoid
- 13) Two chambered heart is a feature of:-
(a) Amphibians (b) Fishes
(c) Reptiles (d) Birds
- 14) Which of the following have notochord throughout life?
(a) Birds (b) Fish
(c) Snake (d) Amphioxus
- 15) Preen gland occurs in-
(a) Reptila (b) Aves
(c) Pisces (d) Mammalia
- 16) The pacemaker of Heart is:-
(a) AV node (b) SA node
(c) SV node (d) Tricuspid valve

17) Purkinje fibres are found in-

- (a) Brain (b) Kidney
(c) Heart (d) Skin

18) Bowman's capsule surrounds-

- (a) Nephron (b) Glomerulus
(c) Uriniferous tubules (d) Malpighian capsule

19) Which of the following gases makes the most stable combination with the hemoglobin?

- (a) CO_2 (b) CO
(c) O_2 (d) N_2

20) Book lungs are respiratory organs of:-

- (a) Mollusca (b) Mammals
(c) Arachnida (d) Earthworm

21. Very Short Answer type questions:- $1 \times 10 = 10$

- 1) What are the main excretory organs in earthworm?
- 2) Name the basic nitrogenous catabolite of Proteins produced in birds? <https://www.upboardonline.com>
- 3) By which tissue are muscles attached to the bones?
- 4) Which type of Joints is found between Skull bones?
- 5) Which type of muscles never undergo fatigue?
- 6) Which organs control the secretion of Pituitary gland?
- 7) Which hormone is called labour hormone?
- 8) Name the vascular connection that exists between the digestive tract and liver.

P.T.O.

9) What is Heparin?

10) Name the plasma Protein involved in blood clotting?

22. Explain the following terms:-

1 × 10 = 10

- 1) Inspiratory Reserve Volume
- 2) Closed type of circulatory system
- 3) Systemic heart
- 4) Mitral valve
- 5) Chondrin Protein
- 6) Malpighian body
- 7) Endocrinology
- 8) Floating ribs.
- 9) Glenoid cavity
- 10) Synapse

23. Explain the process of Glycolysis?

3

24. Differentiate between:-

2 × 5 = 10

- 1) Respiration and combustion
 - 2) Light reaction and Dark reaction
 - 3) Arteries and Veins
 - 4) Cartilage and Bone
 - 5) Enzymes and Hormones
25. Describe the special conducting system(Heart beat) of human heart. 3
26. Explain the mechanism of blood clotting? 3
27. Describe the ornithine cycle of Urea synthesis 3

P.T.O.

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7. Draw the well labelled diagram of following:- 4
(i) Nephron (ii) Human Respiratory system
28. Describe oxidative decarboxylation and Krebs's cycle. 4

OR

Define a cardiac cycle. Give a brief account of the cardiac cycle in Humans.

.....**END**.....

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