



BIOLOGY (THEORY) (CLASS IX) TOTAL MARKS 60

Time:2 Hours

SECTION : A

NOTE: Section A is compulsory. All parts of this section are to be answered.

Q:1 CIRCLE THE CORRECT OPTION. EACH PART CARRIES ONE MARK.

(TOTAL 30 MARKS)

1-Linnaeus adopted a system of nomenclature called _____.

- a. Dinomial
- b. Monomial
- c. Polynomial
- d. Binomial

2 – Which of the following kingdoms was not proposed by Whittaker in the five kingdom classification.

- a. Fungi
- b. Monera
- c. Protista
- d. Viruses

3 During Metaphase of Mitosis , the chromosomes,

- a. Break and disintegrate
- b. Undergo coiling
- c. Arrange at equator
- d. gets divided

4 During Cell division , the nuclear membrane appears in

- a. Metaphase
- b. Telophase
- c. Anaphase
- d. Prophase

5 – The meiotic division takes place in

- a. Conductive cells
- b. Vegetative cells
- c. Reproductive cells
- d. Meristematic cells.

6—Event which doesnot occur in meiosis

- a. separation of sister chromatids
- b. segregation of homologous chromosomes
- c. chiasmata formation and crossing over
- d. One division without any replication

7- The special enzymes are released during necrosis

- a. lysosomes
- b. vacuoles
- c. cytoplasm
- d. Golgi bodies

8-The apoptosis is classified as

- a. programmed cell death
- b. non-programmed cell death
- c. accidental cell death
- d. mitotic cell death

9-Pancreatic juice contains all except

- a. Trypsin
- b. Lipase
- c. Renin
- d. Lipase

10- The movement of food from oesophagus to anus is called

- a. Antiperistalsis
- b. Peristalsis
- c. Mechanical digestion
- d. Ingestion

11-The mode of nutrition in which one organism obtains nutrition from other organisms is known as

- (a) symbiosis
- (b) autotrophic nutrition
- (c) saprophytic nutrition
- (d) heterotrophic nutrition

12- Following are the types of teeth present in human oral cavity , except,

- a. Canine
- b. Molars
- c. Incisors
- d. Dentine

13- The rate of transpiration will _____ if the atmospheric pressure is low

- a. Increase
- b. Decrease
- c. Stay unchanged
- d. Can't be determined

14-The main function of guard cells is to help with _____

- e. Transpiration
- f. Guttation
- g. Transcription
- h. None of the above

15-The movement of materials from the leaves to other tissues of the plant is called _____

- a. Tropic movement
- b. Guttation
- c. Transpiration
- d. Translocation

16- the deoxygenated blood is collected from all the organs by

- a. Arteries
- b. Veins
- c. Nerves
- d. Lymph nodes

17- The hereditary disorder in which the blood fails to clot is

- a-Anaemia
- b. Angina
- c. Haemophilia
- d. tetanus

18- The "Power house" of cell is

- A: Cytoplasm
- B: Mitochondria
- C: Golgi Bodies
- D: Non of these

19- Which of the following organelle is not present in an animal cell?

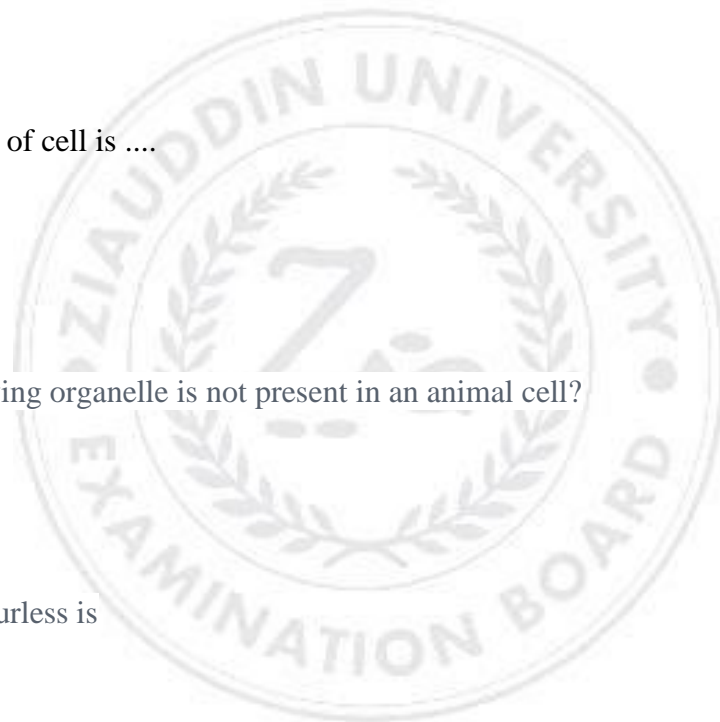
- a. Ribosome
- b. Plastid
- c. Mitochondrial
- d. Nucleus

20- . Plastid that is colourless is

- a. Chromoplast
- b. Leucoplast
- c. Chloroplast
- d. Lysosome

21-The infoldings of the inner membrane of mitochondria are known as

- a. Stroma
- b. Grana
- c. Cristae
- d. Oxysome



22- The membrane that surrounds the vacuole is

- a. Tonoplast
- b. Plasma membrane
- c. Cell wall
- d. Nuclear membrane

23 . In the bodies of complex animals, the contractile tissue is

- (a) Neural
- (b) Muscular
- (c) Connective
- (d) Epithelium

24- Which of the following is not a simple tissue

- a. Parenchyma
- b. Sclerenchyma
- c. Collenchyma
- d. Xylem

25- The tissue providing maximum mechanical strength to the plant is

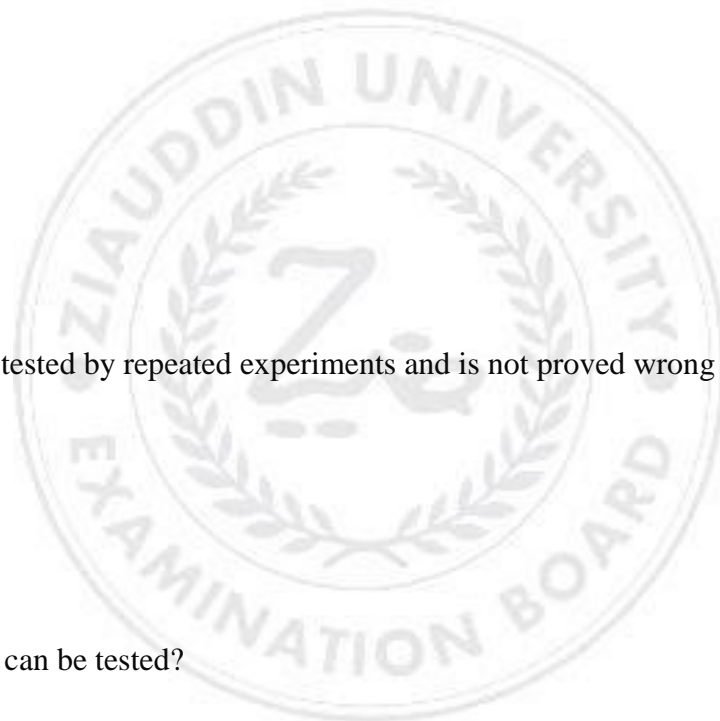
- a. Phloem
- b. Xylem
- c. Parenchyma
- d. Collenchyma

26- When hypothesis is tested by repeated experiments and is not proved wrong then it becomes_____.

- a. Scientific law
- b. Theory
- c. Experiment
- d. All of the above

27- How the hypothesis can be tested?

- a. By development of theory
- b. By scientific laws
- c. By performing experiments
- d. Conduct seminars



28-Al Farabi was the writer of?

- A. Al-Qanoon
- B. Al-Haywan
- C. Kitab\-\Nabatatd
- D. Al-Nabatat

29- In animals the product of anaerobic respiration is:?

- A. Lactic acid
- B. Pyruvic acid
- C. Uracil
- D. Uric acid

30- Aerobic respiration occurs in the presence of?

- A. Oxygen
- B. Hydrogen
- C. Nitrogen
- D. Carbon dioxide





SECTION : B (SHORT QUESTION ANSWERS) (18)

Q-2 Attempt any 6 questions. All questions carry 3 marks.

- 1- Explain the Factors affecting the rate of transpiration
- 2- Write five differences between prokaryotic and eukaryotic cell.
- 3- Write a short note on any one of the following
 - A. Blood disorders
 - B. Pulmonary circuit
 - C. Systemic circuit
- 4- Write a short note on Plant tissues.
- 5- Explain Cellular respiration and it's types.
- 6- Define biology and mention it's 6 branches.
- 7- Write a short note on any one of the following
 - A. Nucleus
 - B. Plastid
 - C. Endoplasmic reticulum
 - D. Cell membrane
- 8- Define Taxonomy and the basis of classification of organisms
- 9- What is biological method? Mention it's steps.
- 10- Write a note on the role of small intestine in digestion in man

Section : C (12 marks)

Q-3 Attempt any 2 Questions. (All Questions carry 6 marks)

- 1 What is mitosis? Explain different stages of mitosis
- 2 What is Heterotrophic nutrition , Name It's types with examples.
- 3 Explain the structure of human heart with the help of labeled diagram
- 4 What are enzymes? Mention factors affecting enzymatic activity.

- e.
- f.