



**GSFC UNIVERSITY**  
**SCHOOL OF SCIENCE**  
**Admission Common Test for B.Sc. Biotechnology, 2023-24**

**Time: 30 Minutes**

**Total Marks: 30**

**Instructions:**

- i. All questions are compulsory.
  - ii. All questions are Multiple Choice Questions.
  - iii. Each question Carries 1 Mark.
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1. Our sir teaches Maths \_\_\_\_\_ English
  - a. Across
  - b. Besides
  - c. Beside
  - d. Both
2. Rohan was \_\_\_\_\_ till death by dacoits.
  - a. Hanged
  - b. Hung
  - c. Hanging
  - d. Hunged
3. If \_\_\_\_\_ I would not lose temper
  - a. I were you
  - b. I was you
  - c. I am not you
  - d. I am you
4. Imam Husain dies \_\_\_\_\_ A noble cause.
  - a. For
  - b. Of
  - c. In



- d. At
5. The person who conducts sales at which goods are sold to the persons making the highest bid is called
- Auctioner
  - Conjurer
  - Chairman
  - Bursar
6. A zwitterion has which of the following properties
- no net charge
  - a high melting point
  - soluble in water
  - all of these
7. What is the hybridization of sulphur in  $H_2S$ ?
- sp
  - sp<sup>2</sup>
  - sp<sup>3</sup>
  - sp<sup>3</sup>d
8. The most typical reaction of simple alkene is
- Electrophilic substitution
  - Nucleophilic substitution
  - Electrophilic addition
  - Nucleophilic addition
9. Which one of the following is not radioactive?
- Astatine
  - Francium
  - Tritium
  - Zirconium
10. Which is the heaviest naturally occurring element?
- Thorium



- b. Uranium
  - c. Mercury
  - d. Polonium
11. A material is said to be \_\_\_\_ if it changes shape when a deforming force acts on it and returns to its original shape when the deforming force is removed
- a. Elastic
  - b. Inelastic
  - c. Plastic
  - d. Rigid
12. If mica sheet is placed between the plates of a capacitor, the capacity
- a. Increases
  - b. Decreases
  - c. initially increases then decreases
  - d. remains constant
13. In p-n junction, the barrier potential offers resistance to
- a. only free electrons in n- region
  - b. only holes in p-region
  - c. free electrons in n-region and holes in p-region
  - d. free electrons in p-region and holes in n-region
14. Which of the following is not dimensionless?
- a. Relative refractive index
  - b. Relative permittivity
  - c. Relative density
  - d. Relative velocity
15. Which quantity is increased in a step-down transformer?
- a. Current
  - b. Voltage
  - c. Power
  - d. Frequency



16. Liquid chromatography can be performed in which of the following ways?
- Only in columns
  - Only on plane surfaces
  - Either in columns or on plane surfaces
  - Neither in columns nor on plane surfaces
17. The gas is commonly used in anaesthesia
- methane
  - nitrous oxide
  - nitrogen
  - hydrogen peroxide
18. In the stomach, gastric acid is secreted by the
- Peptic cells
  - acidic cells
  - Gastrin secreting cells
  - parietal cells
19. Enzyme responsible for curdling of milk
- Pepsin
  - Rennin
  - Prorennin
  - Trypsin
20. Meiosis consists of
- two cell divisions without any DNA replication
  - two cell divisions in which chromosome number is reduced to half
  - two cell divisions with only two rounds of chromosome replication
  - a single cell division with chromosome replication.
21. Biomolecules are
- inorganic materials
  - organic materials
  - all the carbon compounds obtained from living tissues



- d. only DNA and RNA.
22. Biological molecules are primarily joined by
- peptide bonds
  - ionic bonds
  - hydrogen bonds
  - covalent bonds
23. The proteins which fastens the rate of a given metabolic conversation are called
- Haemoglobins
  - metabolites enzyme
  - enzymes
  - none of these.
24. The excretory organ of Earthworm is ?
- Coxal glands
  - Flame cells
  - Malphigian tubules
  - Nephridia
25. Transpiration and root pressure cause water to rise in plants by:
- pushing and pulling it, respectively
  - pulling it upward
  - pulling and pushing it, respectively
  - pushing it upward
26. Which of the following animals is not viviparous?
- Whale
  - Flying fox (Bat)
  - Elephant
  - Platypus
27. In a bacterial cell, the DNA is in the:
- cell envelope
  - cell membrane



- c. nucleoid
  - d. nucleus
28. Chromosomes except those relating to sex are known as
- a. Chromosomes
  - b. Heterosomes
  - c. Allosomes
  - d. Autosomes
29. Study of cell is ?
- a. Biometrics
  - b. Bacteriology
  - c. Biotechnology
  - d. Cytology
30. Which of the following is true for nucleolus?
- a. It takes part in spindle formation
  - b. It is a membrane-bound structure
  - c. Larger nucleoli are present in dividing cells
  - d. It is a site for active ribosomal RNA synthesis

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