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**DHANALAKSHMI SRINIVASAN COLLEGE
OF ARTS & SCIENCE FOR WOMEN
(AUTONOMOUS)**

(For Candidates admitted from 2020 - 2021 onwards)



**UG DEGREE EXAMINATIONS APRIL - 2021
B.Sc., - FORENSIC SCIENCE**

BIOLOGY

Time: 3 Hrs

Max.Marks: 75

PART - A

CHOOSE THE CORRECT ANSWER

(10X1=10)

1. Which of the following is not an organelle?
 a) Ribosomes b) Nucleus c) Endoplasmic reticulum d) Golgi apparatus
2. The Golgi complex plays a major role
 a) in post translational modification of proteins and glycosidation of lipids
 b) in digesting proteins and carbohydrates
 c) as energy transferring organelles
 d) in trapping the light and transforming it into chemical energy
3. Which one of the following immune globulins does constitute the largest percentage in human milk?
 a) Ig M b) Ig A c) Ig G d) Ig D
4. The cell-mediated immunity inside the human body is carried out by:
 a) B-lymphocytes b) T-lymphocytes c) Thrombocytes d) Erythrocytes
5. Which part of the compound microscope helps in gathering and focusing light rays on the specimen to be viewed?
 a) Eyepiece lens b) Objective lens c) Condenser lens d) Magnifying lens
6. In pour-plate method, the medium should be maintained at what temperature?
 a) 37 degree C b) 67 degree C c) 45 degree C d) 0 degree C
7. Which of the following is the simplest amino acid?
 a) Alanine b) Asparagine c) Glycine d) Tyrosine
8. Collagen is
 a) fibrous protein b) globular protein c) lipid d) carbohydrate
9. What is not true for genetic code?
 a) It is nearly universal b) It is degenerate
 c) It is unambiguous d) A codon in mRNA is read in a non contiguous fashion
10. Removal of introns and joining the exons in a defined order in a transcription unit is called
 a) tailing b) transformation c) capping d) splicing

PART- B

ANSWER ALL THE QUESTIONS

(5X7=35)

11. a) Give a brief account on function of Endoplasmic reticulum
(OR)
b) Give a short notes on lysosomes
12. a) Narrate the steps involved in production of monoclonal antibodies
(OR)
b) Short notes on Ag-Ab interactions
13. a) Brief account on sterilization techniques
(OR)
b) Differentiate the Aerobic and Anaerobic culture methods
14. a) Short notes on classification of carbohydrates
(OR)
b) Enumerate the biological importance of Enzymes
15. a) Short notes on different types of DNA polymerases in prokaryotes
(OR)
b) Brief account on the synthesis of RNA

PART-C

ANSWER ANY THREE QUESTIONS

(3X10=30)

16. Essay on Various Organelles present in Eukaryotic cells
17. Elaborate the different types of Antibodies and their functions
18. Detailed notes on different types of culture media
19. write an essay on levels of protein structures
20. Enumerate the steps involved in translation