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Register Number:

Name of the Candidate:

**5304**

**B.Sc. DEGREE EXAMINATION, 2013**

**(ZOOLOGY)**

**(THIRD YEAR)**

**(PART-III)**

**720. CELL BIOLOGY**

December]

[Time : 3 Hours

**Maximum : 100 Marks**

**SECTION-A**

**Answer any TEN questions**

**(10×2=20)**

**Each answer should not exceed 50 words**

1. Electron Microscope.
2. Eukaryote.
3. Virus.
4. Endoplasmic reticulum.
5. rRNA.
6. Biogenesis of endoplasmic reticulum.
7. Golgi apparatus.
8. Power house of the cell.
9. Mitosis.
10. Metaphase.
11. Polytene Chromosome.
12. Mitotic Spindle.
13. ATP.
14. Holocrine Secretion.
15. Diffusion.

**SECTION-B**

**Answer ALL questions**

**(5×7=35)**

16. a) Compare and contrast virus and bacteriophage.  
(OR)  
b) Comment on ultrastructure of Plasma Membrane.
17. a) Explain the structure of Entoplasmic reticulum.  
(OR)  
b) Write a note on functions of ribosomes.

18. a) Give a brief account on primary Lysosome.  
(OR)  
b) Comment on functions of Lysosomes.
19. a) Explain the functions of Golgi complex.  
(OR)  
b) Explain the chemical composition and enzyme system of mitochondria.
20. a) Give a brief account on functions of nucleolus.  
(OR)  
b) Comment on Giant Chromosome.

**SECTION-C**

**Answer any THREE questions  
Each answer should not exceeded 1500 words**

(3×15=45)

21. Describe the ultrastructure and function of trilamellar membrane.
22. Discuss about ultrastructure and function of golgi complex.
23. Write an essay on structure, types and functions of lysosome.
24. Give an account on ultrastructure, types and functions of nucleolus.
25. Write an account on chromosomes structure, functions and special types.

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