

Register Number:

Name of the Candidate:

**M.Sc. DEGREE EXAMINATION, May 2015**

**(ZOOLOGY)**

**(FIRST YEAR)**

**140: BIOCHEMISTRY, BIOPHYSICS AND BIOSTATISTICS**

Time: Three hours

Maximum: 100 marks

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**SECTION-A**

**(10× 2= 20)**

**Answer any TEN questions**

1. Triose
2. Peptide bonds
3. Essential fatty acids.
4. Steroid hormones.
5. Bioenergetics
6. Redox potential
7. Free Energy
8. Ionizing Radiation.
9. Photo electric effect
10. Principle of phase contrast microscope.
11. Resolving power
12. Isotopes
13. Ogive
14. Skewness
15. t-test

**SECTION-B**

**(4× 10 = 40)**

**Answer any FOUR questions**

16. Describe the defects in carbohydrate metabolism.
17. Explain the structure of simple and compound lipids.
18. Give an account of Energy sources of living matter.
19. Write the structure and working condition of compound microscope.

20. Calculate mean, median and mode for the following data:

Marks	10-20	20-30	30-40	40-50	50-60	60-70	70-80	80-90
No. of Students	11	17	23	25	28	14	12	20

21. Write the methods of studying correlation.

**SECTION-C**

**(2× 20 = 40)**

**Answer any TWO questions**

22. Describe the fundamentals physico-chemical properties of amino acids.
23. Write the structure and properties of amino acids
24. Explain about the scanning electron microscope
25. Graphic presentation of the data- Discuss?

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