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Q.P. Code - 56942

Previous M.Sc. Degree Examination OCTOBER/NOVEMBER 2014

(Directorate of Distance Education)

Zoology

(DPA 520) Paper II – PHYSIOLOGY AND BIOLOGICAL CHEMISTRY

Time: 3 Hours | [Max. Marks: 75/85

Instructions to Candidates:

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- Answer any TWO questions from Section-A, TWO from Section-B and Section-C is compulsory.
- 2) Illustrate the answers wherever necessary.
- 3) Section-**D** is applicable to only freshers.

SECTION - A

 $2 \times 15 = 30$

- Describe transport of CO₂ in blood.
- 2. Describe the molecular mechanism of muscle contraction.
- 3. Explain mechanism of synaptic transmission of nerve impulse.
- 4. Give an over view of osmoregulation in aquatic animals.

SECTION - B

 $2 \times 15 = 30$

- 5. Write an account on chemistry of nucleic acids.
- 6. Write step wise oxidative breakdown of fatty acids.
- 7. Explain the mechanism of enzyme action and inhibition of enzymes.
- 8. Give an account of different types of chemical bonds.

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SECTION - C

9. Write short notes on any **THREE** of the following:

 $3 \times 5 = 15$

- (a) Digestion and absorption of lipids.
- (b) Physiological effects of temperature change.
- (c) Body fluids.

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- (d) Protein folding and denaturation.
- (e) Glycogen synthesis.

SECTION - D

 $1 \times 10 = 10$

10. Write an account on protein metabolism.