FACULTY OF SCIENCE
M.Sc. III - Semester Examination, January 2018

SUBJECT: BIO CHEMISTRY
PAPER – IV: PHYSIOLOGY AND XENOBIOTICS

Time: 3 Hours Max Marks: 80

Note: Answer all question from Part – A and Part – B.
Each question Carries 4 marks in Part – A and 12 marks in Part – B

PART – A (8 x 4 = 32 Marks)
(Short Answer Type)

1. Regeneration of Nerve fibres
2. Electrical synapse
3. Muscle Contraction
4. Cytokines is
5. Female Infertility
6. Puberty
7. Cytochrome P 450 Enzymes
8. Pharmacokinetics

PART – B (4 x 12 = 48 Marks)
(Essay Answer Type)

9. a) Write about the transmission of nerve impulse. Give few examples of Neurotransmitters
   (OR)
   b) Write about the Vertebrate Nervous system

10. a) Write about the role of actin and myosin in mechanism of muscle action.
    (OR)
   b) Explain about all the muscle related disorders and their genetic basis

11. a) Write about the environmental and genetic causes of Infertility
    (OR)
   b) What do you understand by Gametogenesis

12. a) Explain the role of cytochrome P 450 Enzymes in drug detoxification. Add a note on
    (OR)
    b) Give an account of
       (i) Drug – dose response relationship
       (ii) Nutrient drug interaction
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