

**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 En 3ymes
- ~~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 action 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 Gameitrogenesis
- ~~12~~ a) Explain the role of cytochrome P 450 en 3ymer in drug detoxification. Add a note on model toxins  
**(OR)**  
 b) Give an account of  
 (i) Drug – dose response relation ship (ii) Nutrient drug interaction

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