

NB: All questions are compulsory.		
Illustrate your answers with neat diagrams wherever necessary		
Q-1 (A)	Discuss excretion of toxicant from animal body.	(07)
<u>OR</u> (A)	Describe how toxicants are absorbed and distributed in body.	
(B)	Explain biotransformation process with suitable examples.	(07)
<u>OR</u> (B)	Describe various factors influencing toxicity.	
Q-2 (A)	Give detailed account on classification of pesticides on the basis of (A) Target organism (B) Mode of entry.	(07)
<u>OR</u> (A)	Describe the effects of solvents and vapours on human health.	
(B)	Write on factors affecting radiotoxicity.	(07)
<u>OR</u> (B)	Write an account on water and soil pollutants.	
Q-3 (A)	Describe cyanide poisoning and its management.	(07)
<u>OR</u> (A)	What is cholestasis? Explain various toxicant induced cholestasis.	
(B)	Explain effect of pesticides on nervous system.	(07)
<u>OR</u> (B)	What is cardiomyopathy? Explain effect of toxicants on heart muscle in detail.	
Q-4 (A)	What is genotoxicity? Describe any two methods used for its testing.	(07)
<u>OR</u> (A)	What is chromosome aberration? Explain it in detail.	
(B)	Write a note on reproductive toxicity.	(07)
<u>OR</u> (B)	Explain medical waste, its toxicity and disposal.	
Q-5	Answer the following: (One Mark Each)	(14)
(1)	What are mutagens?	
(2)	What are air pollutants?	
(3)	Name two xenoestrogens.	
(4)	What is polymicrogyria?	
(5)	What is biomagnification of pesticides?	
(6)	What is the role of anticaking agents as food additives?	
(7)	Name two occupational toxicants.	
(8)	What is necrosis?	
(9)	Write full form of OECD.	
(10)	Define LC ₅₀ .	
(11)	Define: Red tide	
(12)	What is carboxyhemoglobinemia?	
(13)	Define bioactivation.	
(14)	What is tachycardia?	

M.Sc. (Sem.-II) Examination

409

Bio Medical Technology

May-2017

[Max. Marks : 70]

Time : 3 Hours]

NB: All questions are compulsory.		
Illustrate your answers with neat diagrams wherever necessary		
Q-1 (A)	Describe difference between Benign and malignant lesions.	(07)
OR (A)	Define embolism. What are the types of emboli with examples?	
(B)	Describe Myocardial infarction and histopathological changes with regard to time.	(07)
OR (B)	Define Neoplasia and its nomenclature for various tissues. What is metastasis?	
Q-2 (A)	Describe Carbon Monoxide poisoning	(07)
OR (A)	Describe Various types of Viral Hepatitis	
(B)	Write a note on acidosis.	(07)
OR (B)	Write a Note on Diarrhoea and dysentery.	
Q-3 (A)	Describe the causes and symptoms of epilepsy.	(07)
OR (A)	Describe etiopathology of Alzheimer's disease.	
(B)	Describe causes and pathology of Dementia.	(07)
OR (B)	Discuss depression in detail.	
Q-4 (A)	Write a detailed note on the Acute inflammatory disorders of skin.	(07)
OR (A)	Describe the causes and symptoms of Gout.	
(B)	Discuss the symptoms and pathology of congenital bone disorders.	(07)
OR (B)	Elucidate the immunological, iatrogenic and nutritional factors in male infertility.	
Q-5	Answer the following: (One Mark Each)	(14)
(1)	What is Hypertrophy? Give one example.	
(2)	What is Apoptosis?	
(3)	What is phagocytosis?	
(4)	What is ulcer?	
(5)	What is the composition of Renal stone?	
(6)	What are the causes of gastritis?	
(7)	Adverse effects of Embolism.	
(8)	Main makers for breast cancer are_____.	
(9)	Briefly describe: Osteoporosis.	
(10)	Give two differences between necrosis and apoptosis.	
(11)	What is Neurosis?	
(12)	What are the causes of Prostatitis?	
(13)	What do you understand by multiple sclerosis?	
(14)	Define: Cryptorchidism; Hypospaedias.	

M.Sc. (Sem.-II) Examination

410

Bio Medical Technology

Time : 3 Hours]

May-2017

[Max. Marks : 70

NB: All questions are compulsory.		
Illustrate your answers with neat diagrams wherever necessary		
Q-1 (A)	What is taxonomy? Discuss morphological and physiological criteria used for identification and classification of microorganisms.	(07)
OR (A)	What is Sterilization? Explain various methods for killing of microorganisms.	
(B)	Explain any two genetic approaches used for classification of microorganisms.	(07)
OR (B)	What are Gonococci? Describe isolation, cultivation and infections caused by Gonococci.	
Q-2 (A)	Discuss structure, chemical composition and functions of bacterial cell-wall.	(07)
OR (A)	Explain Morphological structure and importance of fungi.	
(B)	Write a note on "Bacterial capsule and its significance"	(07)
OR (B)	Discuss viral diseases of skin.	
Q-3 (A)	Describe symptoms, laboratory diagnosis and control of Tuberculosis.	(07)
OR (A)	Write a note on "Clostridium and Gas gangrene".	
(B)	Describe symptoms, Laboratory diagnosis and treatment of Dysentery.	(07)
OR (B)	Write a note on "Haemophilus and infections caused by Haemophilus".	
Q-4 (A)	Write a brief account on "Antibiotic culture sensitivity tests".	(07)
OR (A)	Explain principle and applications of precipitation reaction.	
(B)	Write a note on "Widal test".	(07)
OR (B)	Explain serodiagnosis of syphilis.	
Q-5	Answer the following: (One Mark Each)	(14)
(1)	What is Numerical taxonomy?	
(2)	Name two spore-forming bacteria and diseases caused by them.	
(3)	Define selective media and give examples for growing coliforms.	
(4)	Define immunodiffusion.	
(5)	What is nucleocapsid?	
(6)	List the infections caused by Pseudomonas.	
(7)	Explain importance of Coombs test.	
(8)	Explain symptoms of Whooping cough.	
(9)	Explain control of pneumonia.	
(10)	Name two species of Rickettsia and their importance.	
(11)	Name two species of Vibrio which are pathogenic to human.	
(12)	Explain symptoms of plague.	
(13)	What is Diplococci?	
(14)	Enlist infections caused by staphylococci.	