		Seat No.:	
		AE-112	
		April-2015	
		B.Sc., SemVI	
		MI-309 : Microbiology (Medical Microbiology)	
Tim	e: 3	Hours] [Max. Marks:	70
Inst	ructio	ons: (1) All questions carry equal marks. (2) Figures at right indicate marks.	
1.	Ans	wer any two :	14
	(a)	Explain factors affecting process of infection.	
	(b)	What is invasiveness? Explain role of bacterial secretions in invasiveness.	
	(c)	Give a brief account of: Bacterial Protein toxins, their properties and mode of action.	
	(d)	Write short note on: Physical and mechanical defense as first line of defense mechanism.	
2.	Ans	wer any two :	14
	(a)	Explain normal microbiota of respiratory tract of Human.	
	(b)	Explain Gnotobiotic life and its role in the study of normal flora.	
	(c)	Write a note on: Epidemiological types of infections.	
	(d)	What are nosocomial infections? Explain its epidemiological significance.	
3.	Exp	lain any two :	14
	(a)	What are the ways of transmission of airborne infections? Write a brief note on	

Influenza.

- (b) Write a note on: typhoid fever.
- Explain AIDS and its social impact. (c)
- (d) Write a note on: malaria management.

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4.	Exp	lain any two :	14
	(a)	Method of clinical specimen collection, storage and transport.	
	(b)	Role of growth and biochemical characteristics in diagnosis and identification of pathogen.	

- (c) Pathological changes in blood and other body fluids used for diagnosis and identification of pathogen.
- (d) Write a note on: Biosensors in diagnosis and identification of pathogen.

5. Answer in **one** or **two** lines:

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- (a) How viruses attach to their host cell?
- (b) Name two chemicals contributing to the non specific host defense.
- (c) Name two physical mechanisms acting as a first line of host defense.
- (d) What do you mean by septicemia?
- (e) Mention human body parts which are generally free from microbial flora.
- (f) Name two bacterial species found in the oral cavity.
- (g) List two significant roles of normal microbiota of human.
- (h) What are epidemiological markers?
- (i) Give name of vector responsible for transmission of plague.
- (j) What is the difference between food infection and food poisoning?
- (k) Give two examples of contagious diseases of human.
- (1) Which diseases are diagnosed by ELISA?
- (m) Mention confirmative biochemical reactions of Proteus vulgaris.
- (n) What are "Negribodies"?

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