		Seat No.:	
		AD-107 April-2016	
		B.Sc., SemVI	
		CC-309: Microbiology	
		(Medical Microbiology)	
Time	e: 3	Hours] [Max. Marks :	70
Insti	ructio	ons: (1) Figures at right indicate marks.	
		(2) Draw diagrams wherever necessary.	
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)	Enlist major differences of Bacterial Protein toxins and LPS toxins; Discuss properties and mode of action of LPS toxins.	
	(d)	Write short note on: Phagocytosis as mode of non-specific defense mechanism.	
2.	Ans	wer any two :	14
	(a)	Explain normal micro biota of Gastro intestinal tract of Human.	
	(b)	Explain Gnotobiotic life and its role in the study of normal flora.	
	(c)	Write a note on: Epidemiological markers.	
	(d)	What is an epidemic? Explain infectious disease cycle in brief.	
3.	-		14
	(a)	What are the ways of transmission of airborne infections? Write a note on Tuberculosis.	
	(b)	Write a note on : Hepatitis.	
	(c)	Explain syphilis as a contagious disease.	

(d) What are Zoonoses ? Explain Rabies in brief.

4.	Explain	anv	two	
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- (a) Method of blood collection, storage and transport.
- (b) Role of microscopy in diagnosis and identification of pathogen.
- (c) Role of pathological changes in blood and other body fluids used for diagnosis and identification of pathogen.
- (d) Write a note on: significance of computers in clinical Microbiology.

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

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- (1) How pathogenic bacteria attach to their host cell?
- (2) Name chemicals contributing to the non-specific host defense against viruses.
- (3) Name two protein toxins of bacteria.
- (4) What do you mean by siderophores?
- (5) What is Pandemic? Give example.
- (6) Name two bacterial species found as normal flora of skin.
- (7) List two significant roles of normal micro biota of human.
- (8) What are no socomial infections?
- (9) Give name of vector responsible for transmission of yellow fever.
- (10) Name two viral infections of human.
- (11) Name causative agent of malaria.
- (12) What are bio sensors?
- (13) Mention confirmative biochemical reactions of *Escherichia coli*.
- (14) Enlist types of specimens generally clinical microbiologist has to handle.

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