## Bachelor of Science (B.Sc.) Semester—V (C.B.S.) Examination

## MEDICAL MICROBIOLOGY

## (Microbiology)

## Compulsory Paper—1

Tim	e: T	hree Hours] [Maximum Mark	s:50
	Not	e:—(1) All questions are compulsory and carry equal marks.	
		(2) Draw suitable diagrams wherever required.	
1.	(a)	What are carriers? Explain various types of carrier.	5
	(b)	Describe various stages of infectious disease.	5
		OR	
	(c)	What are the different vectors borne diseases? Explain various types of vectors involved	d with
		suitable examples.	5
	(d)	Explain various means to protect susceptible population.	5
2.	Desc	cribe aggressive mechanisms of pathogenic organisms.	10
		OR	
	Desc	cribe normal flora of various parts of human body.	10
3.	(a)	Draw well labelled diagram of HIV.	$2\frac{1}{2}$
	(b)	Write a note on qualitative Widal test.	$2\frac{1}{2}$
	(c)	Compare between infectious and serum hepatitis.	$2\frac{1}{2}$
	(d)	Describe Ziehl-Neelsen staining method for Mycobacterium tuberculosis.	$2\frac{1}{2}$
		OR	
	(e)	Explain Mantoux test.	$2\frac{1}{2}$
	(f)	Describe indirect ELISA test for the detection of HIV infection.	$2\frac{1}{2}$
	(g)	Draw the well labelled diagram of hepatitis B virus.	$2\frac{1}{2}$
	(h)	Draw life cycle of plasmodium.	$2\frac{1}{2}$
4.	(a)	Write a note on drugs inhibiting protein synthesis.	5
	(b)	Describe Kirby-Bauer disc diffusion method.	5
		OR	
	(c)	Write any two mechanisms leading to development of drug resistance in the organisms.	5
	(d)	Write a note on drug delivery vehicles.	5
5.		ve any <b>TEN</b> questions:	
	(i)	What is meant by vertical transmission ?	1
	(ii)	What is quarantine ?	1
	(iii)	Define the term pandemic.	1
	(iv)	Name any two diseases of reproductive system.	1
	(v)	What is meant by meningitis ?	1
		What is a gnotobiotic life ?	1
		Name any two media used for cultivation of Mycobacterium tuberculosis.	1
	, ,	What is VDRL test ?	1
	(ix)	What is exoerythrocytic schizogony?	1
	(x)	Why polymyxins are not effective against fungi?	1
	(xi)	What are antimetabolites ?	1
	(xii)	How penicillin attacks bacteria ?	1