NRT/KS/19/2147

Bachelor of Science (B.Sc.) Semester—V Examination MEDICAL MICROBIOLOGY

Optional Paper—1

(Microbiology)

Time : Three Hours]			Maximum Marks: 50	
	` ′	All questions are compulsory and carry equal marks. Draw well labelled diagrams wherever necessary.		
1.	Describe differe	ent modes of disease transmission.	10	
		OR		
	Explain the methods of blocking the channels of transmission.		10	
2.	Describe pathogenicity and virulence. Add a note on various methods of attenuation and exaltation.			
		O.D.	10	
	Б 1 1 .	OR	10	
2	=	al flora of skin, digestive and urinary tract.	10	
3.	` '	e cultural characteristics and lab diagnosis of M. tuberculosis ally draw the life cycle of plasmodium vivax.	. 5 5	
	(b) Schematica	OR	3	
	(c) Describe th	ne pathogenicity of HIV virus.	5	
	` '	aboratory diagnosis of syphilis.	5	
4.		rby-Bauer method of drug susceptibility test.	2½	
		Z-Test method.	21/2	
	(c) Give mode	of action of Nalidixic acid.	2½	
	(d) Discuss dru	ag resistance by efflux pump mechanism.	2½	
		OR		
	(e) Discuss dru	ag resistance by drug inactivating enzyme.	2½	
	(f) Describe su	alphonamide as inhibitor of microbial growth.	2½	
	(g) Write abou	t liposomes as drug delivery system.	21/2	
	(h) Explain cel	l wall synthesis inhibitors with suitable example.	2½	
5.	Write on any TEN of the following:			
	(i) Define exo	tic disease.		
	(ii) Define sept	icemia.		
	(iii) What is en	demic ?		
	(iv) Define LD	50 °		
	(v) Name any	two disease causing bacteria of urogenital tract.		
	(vi) What is gn	otobiotic life ?		
	(vii) Name the t	test for diagnosis of hepatitis.		
	(viii) What is sig	gnificance of Widal test ?		
	(ix) What is en	teric fever ?		
	(x) What is an	timetabolite ?		
	(xi) What is mo	ode of action of floxacin?		
	(xii) What is M	IC ?	1×10	