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# Fifth Semester B. Sc. Examination MICROBIOLOGY

#### MCRODIODO

### Paper - I

Medical	Microbiology

Time: Three Hours ] [Max. Marks: 50

- N. B. : (1) All questions are compulsory and carry equal marks.
  - Draw diagrams and give examples wherever necessary.
- 1. Describe different modes of transmission.

#### OR

Describe different methods for control of communicable diseases. 10

- (a) Differentiate between exotoxins and endotoxins. 5
  - (b) Give the outline of digestive system and enlist its diseases.

#### OR

- (c) Define and differentiate pathogenicity and virulence.

  Describe various methods of attenuation.

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- (d) Describe various enzymes responsible for pathogenicity of the parasite.
- Describe the life cycle of plasmodium.

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Contd.

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Describe various laboratory methods for the diagnosis of syphilis.

	syphil	is.
4.	(a)	Give the mechanism of action of penicillin. $2\frac{1}{2}$
	(b)	Describe E-test for in-vitro drug susceptibility test. $2\ \frac{1}{2}$
	(c)	Explain intrinsic and acquired drug resistance. Give chromosomal and extrachromosomal method of drug resistance. $2\frac{1}{2}$
	(d)	Explain the role of computers in drug designing. $2\ \frac{1}{2}$
		OR
	(e)	Give the mechanism of action of chloramphenicol. 2 $\frac{1}{2}$
8	(f)	What are antimetabolites? Describe any one antimetabolite as inhibitor of microbial growth.
		$2\frac{1}{2}$
٥.	(g)	Enlist various reasons for development of drug resistance and describe any one of them. $2\frac{1}{2}$
	(h)	Discuss automated method for in-vitro drug susceptibility testing.

5.	Solve	any	Ten	:

(i)	Define	prodromal	-1	
(•)	Dernic	prodromai	pnase.	

(ii) Define septicaemia.

(iii) What is endogenous infections?

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(iv	Define MID and MLD.	l
(v	Give the role of capsule in invasiveness.	1
(v	Why eye infections are less common ?	1
. (v	What are dane particles ?	Ī
(v	What is PPD ?	1
(i	Differentiate between salmonella typhi and paraty, A and B on the basis of glucose fermentation a $H_2S$ production.	phi nd 1
(	Define semisynthetic drug.	1
(	Name any two drugs which inhibit nucleic ac synthesis.	cid 1
- (	What is the difference between liposome a	nd