[This question paper contains 4 printed pages.]

1456

Your Roll No. ......

B.Sc. (Hons.) / III

A

MICROBIOLOGY - Paper XII

(Medical Microbiology)

Time: 3 Hours Maximum Marks: 60

(Write your Roll No. on the top immediately on receipt of this question paper.)

Attempt Five questions in all.

Question No. 1 is compulsory.

All questions carry equal marks.

- 1. (a) Associate the following with an infectious disease or organism as the case may be: (any 6)
  - (i) Trismus
  - (ii) Child Bed fever
  - (iii) Rose spots
  - (iv) Walking Pneumonia
  - (v) Australia antigen
  - (vi) Antibiotic associated diarrhoea (1×6=6)

P.T.O.

2.

3.

4.

90	•	Z.		•	
	ve diagnosis eases:	of <b>any</b>	two of	fthe	following
(i	) Enteric feve	r ,			•
(ii	) Influenza				
(iii	) Cholera	•			(3×2=6)
Write	short notes on	any fo	ur of th	e foll	owing :-
(i) A	Adeno viruses				
(ii)	Sub-cutaneous	mycose	s		
(iii)	Peptic ulcer				
(iv) (	Gas gangrene			,	•
(v) '	Tularemia	-			(3×4=12)
(a) Gi	ve two anti vi	ral comp	oounds a	and or	itline their
mo	de of action.				(2+2=4)
(b) Di	scuss the curre	nt strate:	gy follov	ved fo	r treatmen

(c) Name two species of Campylobacter which are

(a) Give the causative agent and mode of transmission

(d) Differentiate between ETEC and EIEC.

(4)

(2)

**(2)** 

of AIDS OR Tuberculosis.

human pathogens.

of the following:

(i) Gonorrhoea

(ii) Peptic ulcer

(iii) Psittacosis

	(iv) Toxic Shock Syndrome (2×4=8)
	(b) Name any two bacteria inhabiting the skin. (2)
	(c) Discuss the epidemiology of Leprosy. (2)
5.	(a) Compare and contrast the Salk and Sabin vaccines with respect to composition, advantages and disadvantages. (4)
	(b) Name the components of MMR vaccine. (1)
	(c) Write a short note on mycetoma OR cryptococcosis.
	(d) Give the virulence factors of Streptococcus pyogenes and Bordetella pertussis. (2+2=4)
6.	(a) Name one fungal, one bacterial and one viral disease commonly associated with patients of AIDS.  (3)
	(b) Name any two DNA viruses commonly associated with cancer. (2)
	P.T.O.

(c) Outline the details of viral etiological agents of hepatitis and specify their mode of transmission.

(5)

(d) Discuss the preparation of currently used Rabies vaccines. (2)