	Utech
Name :	<u>A</u>
Roll No.:	A Day of Your Life 2nd Explant
Invigilator's Signature :	

CS/B.Sc. (H), MicroBio/SEM-6/MDM-602/2011 2011 MEDICAL MICROBIOLOGY

Time Allotted: 3 Hours Full Marks: 70

The figures in the margin indicate full marks.

Candidates are required to give their answers in their own words as far as practicable.

GROUP - A

(Multiple Choice Type Questions)

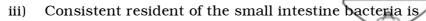
1. Choose the correct alternatives for any *ten* of the following :

 $10 \times 1 = 10$

- i) All the following locations in the human body have a normal flora except
 - a) the skin and mucous membrane
 - b) the respiratory tract
 - c) the external positions of the eyes
 - d) the liver.
- ii) Bacteria belongs to Group A, Beta-hemolytic streptococci is
 - a) Streptococcus pneumoniae
 - b) Streptococcus faecalis
 - c) Streptococcus mutans
 - d) Streptococcus pyogenes.

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- a) E.coli
- b) Bacteroides
- c) Bifidobacterium bifidum
- d) Enterobacter.
- iv) Bacteria in the oral cavity contribute to acid formation that leads to dental caries is
 - a) Lactobacilli
 - b) Lactobacillus acidophilus
 - c) Streptococcus mutans.
- v) Bacteria use as the standard indicator of fecal pollution is
 - a) E.coli

- b) Enterococcus faecalis
- c) Streptococcus mutans
- d) Streptococcus faecalis.
- vi) Aflatoxin is produced by
 - a) Amanita phalloides
- b) Aspergillus flavus
- c) Salmonella
- d) Shigella.
- vii) Diseases acquired in hospitals or from health care workers are termed as
 - a) Nosocomial diseases
- b) Infectious diseases
- c) Airborne diseases
- d) Respiratory infections.
- viii) Non-venereal infection of gonococci is
 - a) Salpingitis
- b) Urethritis
- c) Respiratory infection
- d) Ophthalmia.
- ix) Causative agent of Syphilis is
 - a) Rickettsiae
 - b) Corynebacterium diptheriae
 - c) Streptococcus pyogenes
 - d) Trepanoma pallidum.

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	x)	Ami	Amikacin or Gentamicin commonly used for infections			
		cau	used by			
		a)	Gram-negative bac	cteria		
		b)	Gram-positive bacteria			
		c)	Gram-positive and Gram-negative bacteria			
		d)	Fungal infection.			
	xi)	Dise as	ease stays in popul	ation at 1	low frequency is termed	
		a)	Endemic	b)	Epidemic	
		c)	Pandemic	d)	Prevalent.	
	xii)	Abil	ility of pathogen to establish infection is			
		a)	Infectivity	b)	Prevalence	
		c)	Toxigenicity	d)	Virulence.	
	GROUP – B					
	(Short Answer Type Questions)					
	Answer any <i>three</i> of the following. $3 \times 5 = 15$					
2.	What is toxin? What is the difference between exotoxin and					
	endotoxin? 5					
3.	Briefly describe the use of sulphur drugs. 5					
4.	What are the roles of normal microflora in human body? 5					
5.	What is the mechanism of action of griseofulvin? $1 + 4$					
6.	Write down the mode of phage encoded shiga toxins. 5					

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(Long Answer Type Questions)

Answer any three of the following.



- 7. Give a brief account of sexually transmitted diseases. Explain the Gonorrhoea symptoms and treatment. Explain the Syphilis Prevention and Treatment. 4+6+5
- 8. What are the Antibiotics produced by bacteria ? What is chemotherapy ? How fungi are used in chemotherapy ? 5+4+6
- 9. Write short notes on any three of the following: 5 + 5 + 5
 - a) Plasmid-borne multiple drug resistance
 - b) Amoebiasis and Giardiasis
 - c) Diseases by airborne pathogens
 - d) Hantavirus pulmonary syndrome
 - e) Reemerging infectious diseases.
- 10. Name the microorganisms which cause rabies. What is its mode of action within the body? How can it be prevented?

 Is the disease contagious? 2 + 8 + 3 + 2
- 11. Distinguish between pathogenicity and virulence. What are the virulence factors for *Yersinia pestis*? How is it transmitted into human body? What are the symptoms revealed by this pathogen after infection? 3+6+2+4

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