O. P. Code: 33969

## 2 ½ Hours

Total Marks: 75

- 1. Attempt all questions.
- 2. All questions carry equal marks.
- 3. Draw **neat labeled diagrams** wherever necessary.
- 4. Use of log tables and non-programmable calculator is allowed.
- 5. For Q.2, Q.3 and Q.4 attempt A and B OR C and D.

## Q.1 Do as directed (Any fifteen)

15

- 1. Infectious diseases that are acquired or developed during a hospital stay are known as \_\_\_\_\_ infection.
- 2. Give one example of disease acquired through non-living reservoir.
- 3. Give one example of normal flora present on skin.
- 4. State the importance of enzyme hyaluronidase in virulence of a pathogen.
- 5. What is a passive carrier?
- 6. \_\_\_\_\_are able to cause disease in a normal healthy host with normal host defence mechanism.
- 7. State one difference between sign and symptom.
- 8. Name any one antibiotic for treatment of *S. aureus* infections.
- 9. State role of 'Pneumolysin' produced by S. pneumoniae
- 10. What do you mean by DOTS?
- 11. State true or false: *E.coli* serotype O157:H7 does not ferment sorbitol.
- 12. Name one biochemical test employed for identification of *S. pyogenes*
- 13. BCG vaccine is given for protection from disease \_\_\_\_\_.
- 14. What is clumping factor?
- 15. \_\_\_\_\_is the toxin produced by Shigella.
- 16. State true or false: Meat products are particularly susceptible to contamination by Salmonella.
- 17. Name the protein produced by gonococcus required for bacteria to adhere to cells lining the urinary and reproductive systems.
- 18. Name any one antibiotic used to treat gonorrhoea.
- 19. Define"Teflon pathogen".
- 20 What are "Gummas"?

Q. 2 A	Discuss different mechanisms of invasion by a pathogen for its establishment into host.	08
Q. 2 B	Give a brief account on normal flora of respiratory tract and genitourinary tract.  OR	07
Q. 2 C	Give a brief account on acquisition and transmission of an infectious agent.	08
Q. 2 D	Discuss different portal of exits for pathogens with suitable examples.	07
Q. 3 A	Give an account on various methods for laboratory diagnosis of Tuberculosis	08
Q. 3 B	Discuss various virulence factors of S. pyogenes and their role in its pathogenesis	07
	OR THE PROPERTY OF THE PROPERT	
Q. 3 C	Elaborate on ETEC	08
Q. 3 D	Describe various screening tests for presumptive diagnosis of Urinary Tract Infections	07
Q. 4 A	Give an account of Causative agent, symptoms and pathogenesis for bacillary dysentery.	08
Q. 4 B	Explain diseases progression in Syphilis.  OR	07
0.4C	Discuss Causative agent, mode of transmission and pathogenesis for	08
	Salmonellosis	
Q. 4 D	Pseudomonas and its role in nosocomial infection	07
Q. 5	Write Short notes on any three of the following	15
a.	Nosocomial infection.	
<b>b.</b>	Toxins produced by S. aureus.	
C.	Laboratory diagnosis of respiratory infections by S. pneumoniae.	
<b>d.</b>	Laboratory diagnosis and treatment of syphilis.	
e.	Gonorrhoea –its pathogenesis, diagnosis and treatment.	