

CS-2051

973/MH

DSE-3-MEDICAL MICROBIOLOGY - CODE: BHB30

Sem-VI

Time Allowed 3 Hours

Max. Marks: 74

NOTE: Attempt any two questions from each Section A and Section B respectively, each question carries 11 marks. Section C is compulsory

SECTION A

Q1 . What are the most common microorganisms found in following human organs: nose, Oropharynx, nasopharynx and lower respiratory tract?

Q2. Explain the virulent factors of *Yersinia pestis*. Discuss in detail a zoonotic human disease that is caused by *Y. pestis*.

Q3. Discuss pathogenesis, symptoms, laboratory diagnosis, preventive measures and treatment of diseases caused by following bacterial pathogens : *Rickettsia prowazekii*, *Salmonella typhi*

Q4. Discuss the mechanism of action of tetanus toxin, botulinum toxin and diphtheria toxin on human body.

SECTION B

Q 5. Describe the Orthomyxoviruses and diseases caused by them. Explain antigenic drift and antigenic shift observed in influenza virus.

Q6 Write a note on diseases caused by Paramyxoviruses.

Q7. Discuss in detail the following gastrointestinal infections caused by Protozoans: Giardiasis and Amoebiasis.

Q8. Briefly discuss subcutaneous fungal infections caused by *Sporothrix* and *Cryptococcus*.

Section C

Q9 Write short note on the following:

1. Control of polio by vaccination
2. Virulence factors

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PTO

3. Preventive measures of syphilis
4. Hepatitis D virus
5. Symptoms of tetanus
6. Disease caused by Reoviruses
7. Endotoxins
8. Chlamydiae
9. Treatment of cholera
10. Shingles
11. Laboratory Diagnosis of tuberculosis
12. Causative agent of malaria
13. Opportunistic pathogens
14. Systemic fungal infections
15. Traveller's diarrhoea

15 x 2 = 30

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