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(A-98)

Sardar Patel University
MSc Integrated Biotechnology Examination -Semester 8
PS08CIGMB1: Medical Microbiology
Tuesday 21th April, 2015
2:30 pm to 5:30 pm

Total Marks: 70

Note:

1. Figures to the right indicate marks.
2. Draw neat and labelled diagram, wherever necessary.

Q.1 Multiple choice questions

[08]

- 1 *Entamoeba* belongs to _____ class of protozoa
a. Rhizopoda b. Mastigophora c. Sporozoa d. Rhizophora
- 2 The portal of entry for *Trypanosoma cruzi* is
a. Oral cavity b. Genital tract c. Skin d. Mucous membrane
- 3 *Staphylococcus aureus* is morphologically seen on N. agar plate,
a. Pink b. yellow c. golden d. golden yellow
- 4 Which one of the bacteris is known as "flesh eating bacteria",
a. *S. aureus* b. *S. pyogenes* c. *C. diphtheriae* d. *S. pneumoniae*
- 5 Following Hepatitis virus does not have RNA as genome.
a. A b. B c. C d. D
- 6 Following is not belonging to herpes virus group
a. CMV b. VZV c. EBV d. HPV
- 7 Superficial mycoses affects
a. Skin b. Hair c. Nails d. all of the above
- 8 The following is not an example of dermatophyte
a. Trichophyton b. Epidermophyton c. Microsporium d. *Fusarium*

Q.2 Attempt any seven

[14]

- 1 Explain the morphological forms of *Leishmania donovani*.
- 2 What is blackwater fever?
- 3 Draw trophozoite and cyst of *E. histolytica*
- 4 Transformation in *Haemophilus influenzae*.
- 5 Mode of action of diphtheria toxin.
- 6 Clinical disease caused by Herpes simplex virus
- 7 Culture methods of *E. coli*.
- 8 What is m-y shift? Explain with example.
- 9 What is Aspergilloma?

Q.3 A Discuss the human phase of life cycle of *Plasmodium* spp. Write clinical manifestations of malaria.

[06]

B Enlist the distinguishing features of cestode, trematode and nematode.

[06]

OR

- B Give life cycle of *Ascaris lumbricoides*. [06]
- Q.4 A In detail explain pathogenesis of *S. aureus* and laboratory diagnosis performed to identify pathogen. [06]
- B Discuss virulence factors involved and disease caused by *Mycobacterium tuberculosis*. [06]

OR

- B Write a detailed note on disease caused by *C. diphtheriae* [06]
- Q.5 A Give comparative account on HSV-1 and HSV-2 infection. [06]
- B Write a detailed note on classification of animal Viruses. [06]

OR

- B Write a detailed note on Hepatitis A virus infection. [06]
- Q.6 A Discuss pathogenesis, laboratory diagnosis and treatment of sporotrichosis. [06]
- B Different types of Superficial Mycoses. [06]

OR

- B Discuss various methods used for diagnosis of fungal infection. [06]

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