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Roll No. | | | | | | | | | | |

M.B.B.S.

Second Prof. Examination, July, 2015 (Supple)

Microbiology –I

Time: Three Hours] *[Maximum Marks: 40*

Note: Attempt all questions. Use separate answer sheets for part A, Part B & Part C. Parts of a question must be attempted in sequence. Draw well labeled diagram wherever necessary.

Section –A

1. Write the functions of a cell wall of bacteria. Differentiate between positive and Gram negative bacterial cell wall. [2+3
2. Enumerate various methods of gene transfer. Describe transduction and lysogenic conversion. [1+2+2
3. Enumerate various determinants of virulence of bacteria. Write differences between endotoxins and exotoxins [2+3

Section –B

4. Enumerate common bacterial causes of urinary tract infection and write laboratory diagnosis of UTI. [1+4
5. Enumerate toxins and enzymes produced by Staphylococcus aureus. Describe laboratory diagnosis of staphylococcal food poisoning. [2+3
6. Enumerate and describe standard tests of syphilis in details. Add a note on biological false positive reactions. [3+2

Section--C

7. Enumerate the different classes of immunoglobulins. Describe structure and functions of immunoglobulin G (Ig G). [1+2+2
8. Describe mechanism, chemical mediators and types of anaphylaxis. [3+2

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M.B.B.S.

Second Prof. Examination, July, 2015, (Suppl)

Microbiology –II

Time: Three Hours] *[Maximum Marks: 40*

Note: Attempt all questions. Use separate answer sheets for part A, Part B & Part C. Parts of a question must be attempted in sequence. Draw well labeled diagram wherever necessary.

Section –A

1. Enumerate various species of Leishmania. Describe the laboratory diagnosis of a case of Kala azar. [2+3
2. Write short notes on:
   a. Malignant tertian malaria [3
   b. Giardiasis [2
3. Describe the life cycle & laboratory diagnosis of hookworm infection. [2+1+2

Section –B

4. Enumerate the viral diseases transmitted by mosquito. Discuss in brief the laboratory diagnosis of one of them. [2+3
5. Write short notes on:
   a. Cultivation of viruses. [2.5
   b. Inclusion bodies. [2.5
6. Write in short laboratory diagnosis of HIV infection in an adult. [5

Section –C

7. Describe briefly:
   a. Candidiasis. [2.5
   b. Mycetoma. [2.5
8. Discus the methods used in the laboratory diagnosis of fungal infections. [5

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M.B.B.S.

Second Prof. Examination, March, 2015 (Main)

Microbiology –I

Time: Three Hours]

[Maximum Marks: 40

Note: Attempt all questions. Use separate answer sheets for part A, Part B & Part C. Parts of a question must be attempted in sequence. Draw well labeled diagram wherever necessary.

Section –A

1. Define sterilization. Discuss the various methods of sterilization by moist heat. [1+4
2. Describe the various anaerobic culture methods. [5
3. Write notes on :
   a. Enrichment media [2 ½
   b. Flagella [2 ½

Section –B

4. A 32 years old male reported to the OPD with chief complaints of fever off & on, headache, malaise, anorexia, coated tongue and abdominal discomfort. On examination, he was found to have relative bradycardia, rose spots on chest and hepatosplenomegaly.
   a. What is the most probable diagnosis. [1
   b. Write the pathogenesis and. [2
   c. Discuss the laboratory diagnosis. [2
5. Classify streptococci. Draw a well labeled diagram of antigenic structure of streptococcus pyogenes. Describe the spectrum of diseases caused by it. [1+2+2
6. Discuss the laboratory diagnosis of syphilis. [5

P.T.O.

Section –C

7. Enumerate the different classes of immunoglobulins found in the human body. Describe the important features of any one of them. [2+3

8. Describe the humoral immune response, including the primary and secondary response. [5

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M.B.B.S.

Second Prof. Examination, March, 2015, (Main)

Microbiology –II

Time: Three Hours] *[Maximum Marks: 40*

Note: Attempt all questions. Use separate answer sheets for part A, Part B & Part C. Parts of a question must be attempted in sequence. Draw well labeled diagram wherever necessary.

Section –A

1. Enumerate various free living amoebae. Write in short life cycle & laboratory diagnosis of nagleria fowleri infection. [1+2+2

2. Write short notes on:
   a. Black water fever
   b. Laboratory diagnosis of Kala azar. [3 [2

3. Describe the life cycle & laboratory diagnosis of Wuchereia bancrofti. [2½+2½

Section –B

4. Describe the various methods of isolation of viruses in the laboratory. [5

5. Classify hepatitis viruses. Describe the laboratory diagnosis of infections caused by hepatitis B virus. [2+3

6. Write short notes on:
   a. Opportunistic infections associated with HIV infection. [3
   b. Inclusion bodies. [2

Section –C

7. Name the various genera of dermatophytes. Describe briefly laboratory of infections caused by dermatophytes. [2+3

8. Classify fungi & enlist various fungi causing systemic infections.[2½+2½

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