Master of Pharmacy Examination, 2017 2nd Semester

Microbiology - A (11)

Time: Three Hours

Full Marks: 100

Answer any five questions

1. What is poliomyelitis? Briefly discuss the mode of transmission, prognosis of disease, prevention and treatment of the victims. What is the PULSE Polio immunization?

4+12+4=20

2. What is Hansen's disease? Differentiate: Tuberculoid and Lepromatous leprosy. Write the role of Dapsone and Clofazimine for the treatment of leprosy with mechanism of action. Mention the demerits of Clofazimine therapy. What is MDR-TB?

2+3+4+2+4=20

- 3. Write short notes on any two of the following:
 - a) Extrapulmonary tuberculosis.
 - b) OPV vaccines and its clinical trials.
 - c) Baltimore classification of viruses.
 - d) H. pylori causative agent for stomach carcinoma.

10x2=20

- 4. (a) Describe the characteristics of adaptive immunity.
 - (b) How B lymphocyte and T lymphocyte mediated immunities are generated?
 - (c) Write a note on Antigen presenting cell and Antigen presentation.

6+(5+5)+4=20

- 5. (a) Write a note on any four of the following autoimmune diseases
 - (i) Autoimmune anemias (ii) Insulin dependent diabetes mellitus (iiii) Graves' disease (iv)
 - Myaesthenia Gravis (v) Systemic lupus erythematosus (vI) Rheumatoid arthritis
 - (b) Write a note on role of released sequestered antigens on auto immune disease

(4x4)+4=20

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- 6. (a) What do you mean by DNA mutation? Explain different types of point mutations with examples.
 - (b) What are chemical mutagens?

2+14+4=20

- 7. (a) Explain double helix model of DNA proposed by Watson & Crick with proper diagram.
 - (b) Draw the structure of complementary base pair found in DNA.
 - (c) Write short note on Genetic Code, Transformation

10+4+3+3=20