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2019 Scheme

Q.P. Code: 215001 Reg. no.:

Second Professional MBBS Degree Supplementary Examinations July 2022 Microbiology - Paper I

Time: 3 Hours Total Marks: 100

- · Answer all questions to the point neatly and legibly · Do not leave any blank pages between answers
- Indicate the question number correctly for the answer in the margin space
- Answer all parts of a single question together Leave sufficient space between answers
- Draw table/diagrams/flow charts wherever necessary

Long Essays (2x15=30)

- Describe the mechanism of cell mediated immune response. Add a note on its applications, detection methods, and name the immunodeficiency diseases associated with defect in cell mediated immunity. (7+2+3+3)
- 10-year-old girl presented with migrating joint pain, painless small nodules on the feet, and fever for the past 4 days. O/E murmur was observed on auscultation. ECG showed prolonged PR interval. ESR and CRP were raised. Parents gave a history of repeated sore throat infections earlier.
 - (a) What is your diagnosis
 - (b) Name the causative agent
 - (c) Describe the virulence factors and pathogenesis in detail
 - (d) Describe the lab diagnosis
 - (e) Describe the criteria used for final diagnosis

(1+1+5+5+3) (5x8=40)

Short essays

(4+4)

- Ethylene oxide and plasma sterilization
- Describe the major Hospital Acquired Infections (HAI) types. Add a note on standard precautions
- Define food poisoning, Enumerate the organism causing food poisoning. Describe the lab diagnosis (1+3+4)
- Difference between bacterial and amoebic dysentery. Add a note on morphology and lab diagnosis of E.histolytica (3+2+3)
- What are the differences between Hepatitis A virus and Hepatitis B virus. Describe various markers of HBV in detail and their applications (3+5)

Short answers (5x4=20)

- PCR Principle
- Hydatid disease
- 10. Cryptococcus neoformans
- 11.Lab diagnosis of Ring worm infection
- 12. NACO strategies for HIV testing

Objective type questions

(10x1=10)

- 13. Name 4 parasitic infections affecting the blood
- 14. Name two rapid tests used for diagnosis of malaria.
- 15. Name any two viruses causing diarrhoeal disease
- 16. Name any two discoveries of Robert Koch
- 17. Biological control for autoclave
- Name any two fungi causing Mycetoma foot.
- 19. Name any two parasites causing anaemia
- 20. Name any two superantigens.
- 21. Name two selective media
- 22. Name two vaccines used that prevent cancers.

