

# 2019 Scheme

Q.P. Code: 216001

Reg. no.: .....

## Second Professional MBBS Degree Regular/Supplementary Examinations January 2023 Microbiology - Paper II

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)

1. A 30-year-old female came to emergency department with productive cough, fever, chest pain and shortness of breath for past 4 days. On examination, her temperature was 101<sup>0</sup>F respiratory rate was 30/min, Chest examination revealed decreased breath sounds on left lung. Chest X-ray showed homogenous ground glass opacity in left lower lobe. Sputum upon gram staining showed gram positive cocci arranged in pairs with plenty of pus cells.

- (a) What is the clinical condition.
- (b) What is the causative organism.
- (c) Enumerate the other causative organisms of this condition.
- (d) Laboratory diagnosis of the above condition.
- (e) Vaccine strategy for above condition. (1+1+4+5+4)

2. A four-year-old child was brought to paediatric casualty with fever, altered behaviour and difficulty to swallow liquids. Mother gives a history of dog bite two months back and not taking vaccine as per schedule.

- (a) What is your clinical diagnosis.
- (b) Name the causative agent.
- (c) Describe the pathogenesis of this condition.
- (d) List the samples collected and the methods of antemortem diagnosis of this condition.
- (e) Name cell culture vaccines for this disease.
- (f) What is IDRV. Discuss the post exposure vaccination schedule. (1+1+2+4+3+4)

### Short essays

(5x8=40)

3. Classification of Streptococci with examples. Write about the diseases caused by Streptococcus pyogenes. Add a note on laboratory diagnosis. (2+3+3)
4. Describe the etiology, specimen collection and laboratory diagnosis of urinary tract infection. (2+2+4)
5. Describe the etiology, pathogenesis, lab diagnosis and immunization of chicken pox.
6. Name four organisms causing congenital infections and describe in detail any one of them. (4+4)
7. Describe the etiopathogenesis and lab diagnosis of kala-azar.

(PTO)

**Short answers**

**(5x4=20)**

8. Lymphogranuloma venereum.
9. Trichomonas vaginalis.
10. Respiratory Syncytial virus.
11. Sporotrichosis.
12. Classification of fungus with examples.

**Objective type questions**

**(10x1=10)**

13. Name the selective medium for *Nessieria gonorrhoea*.
14. Which organism is identified by Nagler's reaction.
15. Name two non –sporing, anaerobic gram negative bacilli.
16. Name two viruses which cause microcephaly.
17. Name two zoonotic diseases.
18. Which viral disease is acquired from camel.
19. Which parasite cause calcified cysts in muscles.
20. Which fungal disease is spread by pigeon droppings.
21. Name the organism which causes acute osteomyelitis.
22. Name two tissue nematodes.

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