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M.B.B.S.**Second Professional Examination (Main), Feb. 2020
Microbiology – I***Time: Three Hours]**[Maximum Marks: 40*

Note: Attempt all questions. Use separate answer sheets for Sec. B & Sec. C. For Sec. A, a separate sheet will be provided and answer it on that sheet. Parts of a question must be attempted in sequence. Draw well labeled diagram wherever necessary.

Section –A

1. MCQs (separate sheet)

[8

Section –B

1. Define Healthcare Associated Infections (HCAIs). Name the various HCAIs. Discuss as a doctor what measures you will take to prevent your patients from HCAIs. [1+1+3
2. Define sterilization. Discuss the principle, temperature, time, pressure, control and use of Autoclave. [1+4
3. Write short notes on – [3.5x2
 - a. Anaphylaxis
 - b. Tabulate difference between active and passive immunity

Section –C

1. Monu, a 5 year old boy from Baghpat has developed sore throat and difficulty in swallowing since 4-5 days. On examination, the pharyngeal mucosa was found to be inflamed with pus points. Culture of the throat swab revealed pinpoint beta hemolytic colonies.
 - a. Name the etiological agent. [1
 - b. Name the clinical diagnosis of this presentation. [1
 - c. Discuss the laboratory diagnosis of infection caused by this organism. [3
2. Name the agent of Syphilis and describe its morphology / motility. Enumerate all the methods used for laboratory diagnosis. [1+1+3
3. WIDAL test. [5

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M.B.B.S.
Second Professional Examination (Main), Feb. 2020
Microbiology – II

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

Note: Attempt all questions. Use separate answer sheets for Sec. B & Sec. C. For Sec. A, a separate sheet will be provided and answer it on that sheet. Parts of a question must be attempted in sequence. Draw well labeled diagram wherever necessary.

Section –A

1. MCQs (separate sheet)

[8

Section –B

1. An 8 year old girl from Meerut came to the Paediatrics OPD. On examination she had pallor. Peripheral blood smear revealed microcytic hypochromic anaemia. Stool microscopy (saline mount) showed oval non-bile stained egg with segmented ovum (four blastomeres).
 - a. What is the most likely causative agent? [0.5
 - b. Describe in detail the life cycle of the etiological agent with the help of diagrams. [2
 - c. Name any 02 antiparasitic drugs which can be used to treat this infection. [1
 - d. Enumerate 03 others parasites which can cause anaemia. [1.5
2. Describe in detail the laboratory diagnosis of kala azar. Write in brief about post kala azar dermal leishmaniasis. [4+1
3. Write about - [3x2
 - a. Giardiasis & its detection in laboratory
 - b. Concentration methods of stool for demonstration of ova & cysts

Section –C

1. Draw a neat labeled diagram of HIV. Write about strategies of HIV testing in India. Enumerate the opportunistic infections commonly associated with HIV. [2+2+2
2. Describe in detail the various methods for isolation of viruses in the laboratory. [5
3. Name the three genera of dermatophytes & mention their differentiating characteristics. How will you diagnose ringworm infection in the laboratory. [3+2