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MCMM-001/MCMM-101

POST GRADUATE DIPLOMA IN HIV MEDICINE (PGDHIVM)

Term-End Examination

June, 2025

MCMM-001/MCMM-101 : BASICS OF HIV INFECTION

Time : 3 Hours

Maximum Marks : 70

Note : (i) *Attempt all questions.*

(ii) *Write answers to question nos. 1 and 2 within 1500 words each and question nos. 3, 4 and 5 within 1000 words each.*

1. A 40 year old HIV positive MSM, treatment defaulter, presented with low grade fever, headache, vomiting and altered sensorium.

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Examination revealed neck rigidity and papilloedema CD₄ cell count was 100/mm³.

$$4 \times 5 = 20$$

- (i) What is the most likely clinical diagnosis ? Enumerate the etiological causes for this condition.
 - (ii) How will you investigate to establish the diagnosis ?
 - (iii) How will you treat him ?
 - (iv) How will you restart Anti-Retroviral Therapy (ART) ?
2. (i) Describe briefly the role and process of HIV sentinel surveillance. 10
- (ii) Discuss the role of viral load monitoring in HIV infection. 10
3. (i) What are the mechanisms of CD₄ cell deflection and dysfunction ? 5
- (ii) What are the dominant patterns of HIV disease progression ? 5

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4. Describe briefly the risks factors, clinical profile, diagnosis and treatment of PCP pneumonia. 10
5. What is HIV drug resistance and how does it develop ? 10

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