

**POST GRADUATE DIPLOMA IN HIV
MEDICINE**

Term-End Examination

December, 2013

MCMM-004 : MANAGEMENT OF HIV/AIDS

Time : 3 Hours

Maximum Marks : 70

Note : Attempt all questions.

1. A 32 year old male immunocompromised patient is on ART (AZT/3TC/NVP) for last four years. His baseline CD4 was 252 cells/mm³ (Jan 2009) and subsequent CD4 reports are as follows :

July 2009 296 cells/mm³

Jan 2010 321 cells/mm³

July 2010 347 cells/mm³

Jan 2011 364 cells/mm³

July 2011 388 cells/mm³

Jan 2012 424 cells/mm³

July 2012 352 cells/mm³

Jan 2013 287 cells/mm³

He has now come to the ART centre with history of irregular fever for 1 month. On examination there is cervical lymphadenopathy and oral candidiasis. FNAC of lymphnode showed presence of AFB. His current CD4 (April 2013) is 204 cells/mm³. He has completed a full course of ATT 6 years back for pulmonary tuberculosis.

- (a) To which clinical stage (WHO) does he belong ? 2
- (b) Does he show evidence of ART failure ? 4
Give reasons.
- (c) How will the ART Medical Officer approach this patient ? 4
- (d) What important test is to be carried out and how that will influence further management of this patient ? 4

Subsequently this patient was found to be eligible for 2nd line ART.

- (e) Write a prescription for his 2nd line ART as per current NACO guidelines. 4
 - (f) Do you want to make any modification to his antitubercular treatment ? 2
2. Name the different stages of the life cycle of Human Immune Deficiency Virus (HIV). Briefly discuss how the different classes of antiretroviral drugs act on these different stages ? 3+7=10
3. Discuss the strategy for diagnosing HIV infection in a child born to an HIV +ve mother in our national programme. 10

4. Write short notes on :

3x10=30

- (a) Common signs and symptoms of HIV infection in infants.
 - (b) Current NACO guidelines for initiation of ART in HIV infected adults.
 - (c) Benefits of early ART initiation
 - (d) IRIS
 - (e) Abacavir Hypersensitivity Syndrome
 - (f) Drug interactions between statins and protease inhibitors (PIs)
 - (g) ART in asymptomatic (WHO stage I) pregnant women with CD4 count <350 cells/mm³
 - (h) ART in HIV 2 infection
 - (i) Mode of delivery in HIV + ve pregnant mother
 - (j) Preventive Counseling
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