

POSTGRADUATE INSTITUTE OF MEDICINE
UNIVERSITY OF COLOMBO

MD (VENEREOLOGY) EXAMINATION - DECEMBER 2017

Date :- 11th December 2017

Time :- 1.00 p.m. - 4.00 p.m.

PAPER I

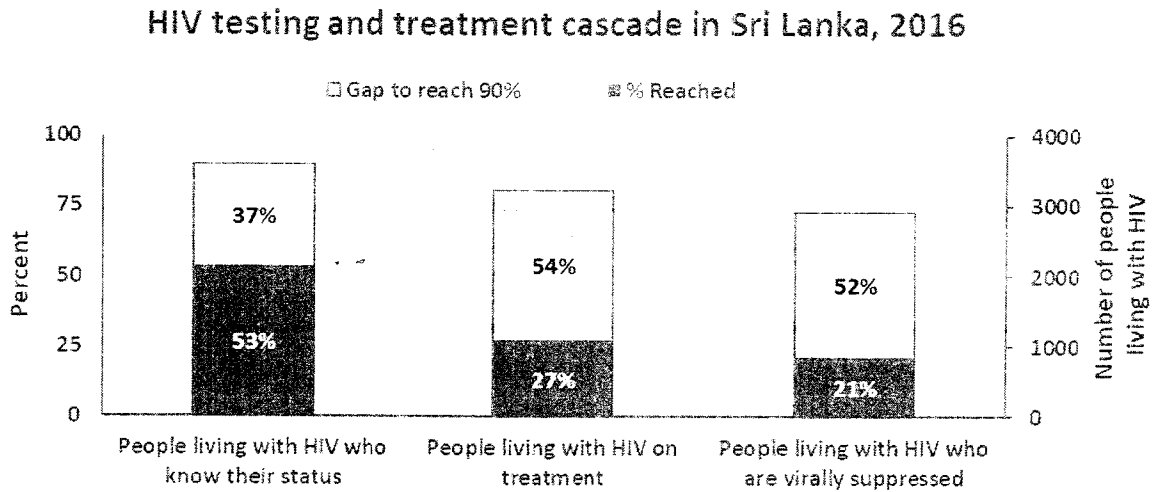
Answer all five (05) questions.

Each question to be answered in a separate book.

1. Under the Global Fund for AIDS, Tuberculosis and Malaria project from 2011 to 2015 there was an important component on prevention of HIV transmission among MSM. This component was implemented by the Family Planning Association with the support of the NSACP.
 - 1.1. Briefly explain the methodology of the prevention programme for MSM under global fund project. (25 marks)
 - 1.2. Outline the steps in monitoring and evaluating this programme. (25 marks)
 - 1.3. Outline the information required and the sources of this information to critically evaluate the above programme. (50 marks)

2. A 32-year-old male living with HIV attends your clinic with his 30-year-old pregnant wife with a period of amenorrhoea (POA) of 20 weeks. They have two children aged 12 and 8 years. He used to work in India where he took antiretroviral therapy on and off. He returned to Sri Lanka 6 months ago. He is well.
 - 2.1. State the main issues. (30 marks)
 - 2.2. Outline your action plan for each person. (40 marks)
 - 2.3. If the wife is HIV positive, how would you initially treat and monitor her? (30 marks)

3. Achieving 90-90-90 targets by 2020 is necessary to achieve the goal of ending AIDS. The graph given below illustrates the Sri Lankan situation with regard to these targets based on available data.



- 3.1. Critically comment on these estimates and gaps.

- 3.1.1. Bar 1 (30 marks)
- 3.1.2. Bar 2 (10 marks)
- 3.1.3. Bar 3 (10 marks)

- 3.2. Discuss the strategies that would narrow the gaps in all three bars. (50 marks)

4. A 25-year-old pregnant woman with period of amenorrhoea (POA) of 31 weeks was referred to STD clinic by the obstetrician with genital ulcers of three days duration. The condition was diagnosed as first episode of genital herpes (HSV). Other STIs were excluded.

4.1. Describe how would you manage this pregnant woman. (40 marks)

4.2. What actions would you take to prevent possible discrimination towards this patient? (20 marks)

4.3. At 38 weeks of POA, she went into labour and had normal vaginal delivery. How would you manage the baby? (30 marks)

4.4. The woman has had one lifetime sexual partner. What is the most important aspect you would consider in managing him? (10 marks)

5. Dual rapid point-of-care tests for HIV and Syphilis have become available.

5.1. Discuss briefly the possible uses of these in Sri Lanka and their limitations. (30 marks)

The field performance of a newly developed dual rapid immunodiagnostic test for HIV and Syphilis infection was evaluated among 205 high risk individuals.

With regard to HIV, 16 samples tested positive with the reference test and 15 tested positive with the rapid test. There were no false positives. There were 30 invalid results with the rapid test and these were excluded from the analysis.

5.2. Present this data in a 2 X 2 table. (10 marks)

5.3. Calculate the sensitivity and specificity of the rapid test. (10 marks)

5.4. Calculate the positive and negative predictive values of the test. (10 marks)

5.5. Comment on the suitability of the test for screening for HIV among high risk population. (20 marks)

5.6. Comment on the impact of the 30 invalid results on the performance of this test. (20 marks)