Write short notes on:

1. a) Enumerate arbovirus infections reported from India.
   b) Pathogenesis of Dengue Haemorrhagic fever (DHF).
   c) Status of Dengue Vaccine.

    b) List currently available vaccines.

3. List the viruses that cause opportunistic infections in AIDS. Describe the characteristics of any one of them.

4. Enumerate 6 parasitic zoonotic diseases. Write about the mode of transmission and pathogenesis of any one of them.

5. Prevention of Hepatitis A infection.

6. a) Enumerate coccidian parasites of humans.
    b) Transmission and laboratory diagnosis of Toxoplasma gondii infection.

7. List the various methods of detection of viruses in clinical specimens. Describe their principles and the clinical specimen where these can be used.

8. a) List various schistosomes, their mode of infection and diseases caused by them.
    b) What is the status of these disease in India?

    b) Immunoprophylaxis of rabies.

10. Aetiopathogenesis, epidemiology and diagnosis of Chikungunya.