7. a) Define sampling:
   b) List and briefly describe the steps of a sampling strategy to
      assess the prevalence of hypertension among adults aged 40
      years and above in a district, using cluster sampling.

8. a) Define “safe and wholesome water”.
    b) List and briefly describe four options for chemical disinfection
       of water at a domestic level in an urban slum.
    c) Write a note on the presumptive coliform test.

9. a) What is “screening for disease”?
    b) List and briefly explain the terms “validity” and “reliability” in the
       context of screening test.
    c) List and briefly explain four measures of validity of a screening
       test.

10. a) “Rickettsial fevers are a silent cause of suffering in India”. List
    and briefly explain four epidemiologic measures which would
    support this statement.
    b) Write briefly about the measures of control of ticks and mites in
       a rural community.