

COMMUNITY HEALTH, DEMOGRAPHY AND BIO-
STATISTICS

Time : Three hours

Maximum : 100 marks

PART A — (10 × 4 = 40 marks)

Answer ALL questions.

1. Define hypothesis.
2. What are the various terminologies used in epidemiology?
3. What are the application and uses of bio-statistics?
4. Define sampling.
5. What are the various sources for collection of demographic data?
6. What are the vital statistics?
7. Define the concept of family planning.
8. Explain ANOVA.

9. Write short notes on (a) AIDS (b) STD.
10. Define measure of central tendency.

PART B — (4 × 15 = 60 marks)

Answer any FOUR questions.

11. Explain the methods of controlling infections disease.
12. Explain the various types of purposetal sampling.
13. Explain the importance of tests of significance.
14. Explain the various sources for collection of demographic data.
15. Briefly explain three methods of calculation of mid-year population.
16. Explain the WHO's global strategy for family planning.
17. Explain the diagnosis treatment for leprosy, Tuberculosis.
18. What are the various effects of population explosion is India?

HUMAN ANATOMY, PHYSIOLOGY AND MEDICAL
TERMINOLOGY

Time : Three hours

Maximum : 100 marks

PART A — (10 × 4 = 40 marks)

Answer ALL the questions.

1. Describe the meninges of brain and spinal cord.
2. Enumerate the functions of CSF.
3. Describe the structure of neuron.
4. Differentiate arteries, veins and capillaries.
5. Explain pulmonary circulation.
6. List out the functions of pituitary gland.
7. Describe the functions of skin.
8. Menstrual cycle.
9. Describe the structure of kidney.
10. Synaptic transmission.

Answer any FOUR questions.

11. Explain the structure of ear with diagram and mechanism of hearing.
12. Explain in detail about the methods of disinfection and sterilization.
13. Explain digestive system.
14. Explain the investigation procedures of any outbreak of infection in the hospital.
15. Explain the structure and functions of spinal cord.

PATIENT CARE, SATISFACTION AND QUALITY
ASSURANCE

Time : Three hours

Maximum : 100 marks

PART A — (10 × 4 = 40 marks)

Answer ALL questions.

1. What is ophthalmology? What are the services associated with it?
2. Define total quality management.
3. What are the role of anesthetist in the surgery process?
4. What are the functional laboratories in a hospital setting?
5. What are the principles and policy guidelines associated with radiologic service.
6. What are the significance of hospital pharmacy?
7. How would you monitor and control cross infection?
8. Define : medical audit.

9. Give an elaborate account of causality services.
10. Explain the physical facilities in a laboratory.

PART B — (4 × 15 = 60 marks)

Answer any FOUR questions.

11. Give an elaborate account of speciality services in hospitals.
12. Explain the problems faced while running an outpatient department.
13. Explain the role, function and organisation of emergency and ambulance services in a large hospital.
14. Explain the constraints in providing quality health care.
15. Explain the organization and administration of laboratory services.
16. Explain in detail how will you assure quality in different areas of the hospital like operation theatre, laboratory, kitchen, etc.
17. Give an elaborate account of the policies associated with the operation theatre.

