Instructions: (1) All Questions are compulsory.
(2) Answer each main Question on a new page.
(3) Illustrate your answers with neat sketches wherever necessary.
(4) Figures to the right indicate full marks.

1. Attempt any EIGHT of the following: 8 × 2 = 16
   (a) Define Nutrition and classify food.
   (b) Name sources and deficiency diseases of (i) Iodine (ii) Iron.
   (c) Name the vitamin causing following deficiency disease:
      (i) Pernicious anaemia
      (ii) Blood clotting disorders
      (iii) Colour blindness
      (iv) Osteoporosis
   (d) Name any two STD with their causative agents.
   (e) What do the following acronyms stand for?
      (i) BCG
      (ii) BMR
      (iii) HIV
      (iv) DPT
   (f) Define the terms:
      (i) Aerobes
      (ii) Anaerobes
(g) Write two advantages and two disadvantages of Terminal methods of family planning.

(h) Name two diseases of each of following:
   (i) Mosquito
   (ii) Rat

(i) Name the disease due to following causative agent:
   (i) Treponema pallidum
   (ii) Varicella Zoster virus.

(j) Name causative agents of following disease:
   (i) Tuberculosis
   (ii) Malaria

(k) Draw well labelled diagram of virus.

(l) Differentiate between communicable and non-communicable diseases.

2. Attempt any FOUR of the following: 4 × 3 = 12

(a) What is epidemiology? Explain different types of epidemiological methods.

(b) What is disinfection procedures for
   (i) Faeces & urine
   (ii) Surgical instruments
   (iii) Sputum

(c) Give sources & functions of Vitamin-C. Mention symptoms of scurvy.

(d) What is composition of pure air? How air pollution can be control?

(e) What is family planning? Give advantages & disadvantages of condom.

(f) Classify bacteria according to their shape.
3. Answer any FOUR of the following: \[4 \times 3 = 12\]

(a) Discuss the role of community pharmacist.

(b) Discuss in brief hospital acquired infections.

(c) Explain Universal Immunization programme.

(d) What are general signs & symptoms of fractures? Describe general management of fractures.

(e) Write prevention, control and management of cardio vascular diseases.

(f) Define the terms:
   (i) Incubation period
   (ii) Disinfection
   (iii) Immunity

4. Attempt any FOUR of the following: \[4 \times 3 = 12\]

(a) Define Vaccine. Differentiate between Active & Passive immunity.

(b) Name various sources of water. Describe household method of water purification.

(c) Define the terms:
   (i) Social health
   (ii) Mental health
   (iii) Physical health

(d) What is solid waste? Name various methods for its disposal. Describe any one in short.

(e) What are intrauterine devices? Classify them along with their mechanism of action.

(f) What are types of cancer? Explain factors responsible for it.

P.T.O.
5. Give causative agents, mode of transmission & prevention of any FOUR of the following diseases:
   (i) Plague
   (ii) Polio
   (iii) Rabies
   (iv) Leprosy
   (v) Cholera
   (vi) Diphtheria

6. Attempt any FOUR of the following:

(a) Explain the term:
   (i) Reservoir
   (ii) Cold chain
   (iii) Antibody
   (iv) Quarantine

(b) What is cardiac arrest? Explain CPR.

(c) Write a note on Gram staining method.

(d) Write “Rule of Nine” for estimation of percentage of burns. Write emergency treatment for burns.

(e) Give causes, types, prevention & management of Diabetes Mellitus.

(f) Define Health. List various determinants of health. Explain any two determinants.