Instructions:

(1) All Questions are compulsory.
(2) Answer each next main Question on a new page.
(3) Illustrate your answers with neat sketches wherever necessary.
(4) Figures to the right indicate full marks.
(5) Use of Non-programmable Electronic Pocket Calculator is permissible.
(6) Mobile Phone, Pager and any other Electronic Communication devices are not permissible in Examination Hall.

Marks

1. Answer any EIGHT of the following :  

(a) Define the following:
   (1) Indicators of Health
   (2) Epidemiology

(b) Define the term:
   (1) Fertility
   (2) Communicable disease

(c) Name the deficiency disease of the following:
   (1) Ascorbic acid
   (2) Iron
   (3) Niacin
   (4) Vitamin D

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(d) Name one disease caused by following arthropod:
   (1) Mosquito
   (2) Sandfly

(e) Give full form of following abbreviation:
   (1) DPT
   (2) CVS
   (3) ORS
   (4) BBT

(f) Name the causative agent for the following:
   (1) Chicken Pox
   (2) Tuberculosis
   (3) Whooping cough
   (4) Syphilis

(g) Name the characteristic of an ideal health indicator.

(h) Define:
   (1) Immunity
   (2) Immunisation

(i) Name one example of each:
   (1) Air borne disease
   (2) Water borne disease

(j) Define the term: Incubation Period.

(k) Define:
   (1) Contraceptive
   (2) Zoonotic disease

(l) Explain why “Drink milk after boiling”.

2. **Answer any FOUR of the following:**

(a) Define the term antigen and antibody. Classify Immunity.

(b) Define coronary heart disease. Give causes, prevention and control of coronary heart disease.

(c) Give causative agent, transmission and prevention and control of malaria.

(d) Give systematic classification of fungi.

(e) Classify rodent borne disease. Give control measures of rodents.

(f) Define noise. Give ill-effects of noise and noise control measures.

3. **Answer any FOUR of the following:**

(a) Define splint. Explain types of splint.

(b) Define burns and scald. How to treat chemical burns?

(c) Describe on “Population Problem in India”.

(d) Explain classification of food and state functions of food.

(e) Explain Natural history of disease.

(f) Define balanced diet. Give its composition.

4. **Answer any FOUR of the following:**

(a) Define the term Demography. Explain demographic cycle.

(b) What first aid should be given in poisoning?

(c) Explain hardness of water. Give its types, disadvantage and process of removal of hardness.

(d) Define staining. Describe techniques of staining.

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5. **Answer any FOUR of the following:** 12

(a) What is hospital acquired infection? Give its types, prevention and control.

(b) Define Diabetes. Give types, causes, prevention and control of diabetes.

(c) Define food poisoning. Give its types, prevention and control.

(d) Define Gram Staining. Write procedure and principle of gram staining.

(e) Define insecticides. Classify insecticides with examples.

(f) Define fracture. Name causes of fracture and types of fracture.

6. **Answer any FOUR of the following:** 16

(a) Explain Behavioural and Natural Family Planning methods.

(b) Explain protein deficiency disease.

(c) Describe concept of prevention of disease.

(d) Give sources and deficiency disease of Vitamin B1, B2 and B3.

(e) Write disinfection procedure for
   (i) room
   (ii) sputum
   (iii) faeces
   (iv) instruments

(f) Explain different methods of solid waste disposal.