

GOVERNMENT OF KERALA  
PARAMEDICAL COUNCIL  
DIPLOMA IN HEALTH INSPECTOR COURSE  
Final Year Examination Regular and Reappearance - January 2026  
PAPER I - Environmental Sanitation & Public health Problems

Time: 3 hrs.

Marks: 100

**I. Choose the correct answer:**

(1x10=10 Marks)

1. The instrument used to measure air velocity  
a) Hydrometer b) Anemometer c) Barometer d) Thermometer
2. What is used for defluridization  
a) Sulphate b) chlorine c) Phosphate d) Bleaching powder
3. Chlorine lime otherwise called  
a) Bleaching powder b) lime c) chloramine d) Chlorine tab
4. Measurement of rain fall  
a) m/day b) cm/time c) m/unit time d) mm/unit time
5. The minimum air space required for septic tank  
a) 1 feet b) 3feet c) 1.5 meter d) 5 feet
6. Presence of which organism is the indicator of fecal pollution in water  
a) algae b) fungus c) coliform d) protozoa
7. Copper asetoarsenite is known as  
a) Paris green b) BHC c) Acetone d) Percloron
8. The extreme limit of noise tolerance in human  
a) 85 decibels b) 140 decibel c) 20000 decibel d) 20 decibel
9. Name of waste water containing human excreta  
a) sullage b) sewerage c) sewage d) refuse
10. Name the arthropods which transmit disease mechanically  
a) mosquito b) house fly c) itch mite d) ticks

**II. Fill in the blanks:**

(1x5=5 Marks)

1. The average number of flea per rat .....
2. Ortho toludine test is used to find out.....
3. Base exchange process is used for .....
4. Minimum floor space required for a person .....
5. .... is the unit of exposure of Radiation

**III. Name the following:**

(1x5=5 Marks)

1. Scaling of boilers due to
2. Suction action of wind
3. Long needle like structure in mosquito head
4. The vector which transmit Kala azar
5. what is the other name of refuse

**IV. State whether True or False:**

(1x5=5 Marks)

1. Air conditioning is natural ventilation
2. Pond water is ground water
3. Temporary hardness otherwise called carbonate hardness
4. Vital layer is called heart of sand filter
5. Abate is used as residual insecticide

**V. Match the following:****(1x5=5 Marks)**

- |                      |   |                   |
|----------------------|---|-------------------|
| 1. Globe thermometer | - | Rodenticide       |
| 2. DDT               | - | Light             |
| 3. Back washing      | - | slow sand filter  |
| 4. foot candle       | - | Contact poison    |
| 5. zinc phosphide    | - | Radiant heat      |
|                      | - | Rapid sand filter |

**VI. Expand the following****(1x5=5 Marks)**

1. PRAI
2. RNTCP
3. NEERI
4. PAH
5. RCA

**VII. Answer in two to three sentences:****(2x5=10 Marks)**

1. Population problem in India
2. chloramine
3. Health effect of noise
4. Habits of mosquito
5. Day light factor

**VIII. Write short note on any five:****(5x5=25 Marks)**

1. Nutritional problems in India
2. What are the effects of atmospheric pressure on health at high and low altitude
3. Fly control measures
4. Major source of air pollution
5. Swimming pool sanitation
6. Water sample collection for bacteriological and chemical examination

**IX. Write Essays on any two:****(15x2=30 Marks)**

1. (a) Explain RCA latrine (8 Marks)  
    (b) Working septic tank with help of diagram (4+3 Marks)
2. Major communicable and non-communicable disease problems in India
3. (a) Hardness of water (3 marks)  
    (b) Removal of hardness (7 marks)  
    (c) Purification of water in small scale (5 marks)

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