

**Government of India**  
**National Institute of Public Health Training & Research, Mumbai.**

**Sanitary Health Inspector (2022-23) (Batch VI)**  
**First Semester – Final Examination**

**Paper I - Concept of Public Health, Basic Health Sciences, Immunity & Biostatistics**

Date: 12/12/2022

Time: 11.00 am to 01.00 pm

Total Marks - 60

**Section A**

**Q.1. Multiple Choice Questions. (All Ten questions are compulsory). 1×10 = 10 marks**

1. Which of the following immunity is called the first line of defence?
  - a) Innate Immunity
  - b) Active immunity
  - c) Passive immunity
  - d) Acquired immunity
2. Which intervention measure is best for prevention & control of dengue, Chikungunya & Zika?
  - a) Regular Insecticidal Fogging
  - b) Mosquito breeding source reduction
  - c) Indoor Residual Spray with DDT/Malathion/Synthetic Pyrethroids
  - d) Beating of Drums
3. The basic functional unit of a human kidney is known as -
  - a) Nephron
  - b) Pyramid
  - c) Henle's loop nephron
  - d) Nephridia
4. National Nutrition week is observed every year from -
  - a) 1<sup>st</sup> to 7<sup>th</sup> April
  - b) 1<sup>st</sup> to 7<sup>th</sup> August
  - c) 1<sup>st</sup> to 7<sup>th</sup> September
  - d) 1<sup>st</sup> to 7<sup>th</sup> November
5. A Circle divided into sectors proportional to the frequency of items shown is called -
  - a) Bar chart
  - b) Pie chart
  - c) Histogram
  - d) Frequency polygon
6. Night blindness and xerophthalmia are generally conditions associated with the deficiency of which vitamin?
  - a) Vitamin B
  - b) Vitamin K
  - c) Vitamin B2
  - d) Vitamin A
7. A structural component that is found in all viruses is:
  - a) The envelope
  - b) DNA
  - c) Capsid
  - d) Capsid
  - e) Spikes

8. Which of the following is not a measure of central tendency?
  - a) Mean
  - b) Median
  - c) Range
  - d) Mode
9. Which of the following immunoglobulins makes the largest percentage in breast milk?
  - a) IgM
  - b) IgD
  - c) IgG
  - d) IgA
10. Water disinfection is done by -
  - a) Chlorination
  - b) Boiling
  - c) Ultra Violet rays treatment
  - d) All of the above

**Q. 2. Write Three Differences of each - (Attempt any Three)**

**3×3=9 marks**

- a) Right ventricle and Left ventricle
- b) Small intestine & large intestine
- c) Cartilage and Bone
- d) Quarantine and Isolation
- e) Artery and Vein

**Q. 3. Write short notes - (Attempt any Four)**

**4×4=16 marks**

- a) Functions of Liver
- b) Infant mortality Rate
- c) Universal precautions
- d) Special characteristics of health communications
- e) Cold chain maintenance
- f) Herd Immunity

### **Section B**

**Q. 4. Answer in one or two sentence. (Attempt any five)**

**2×5=10 marks**

- a) Which are the Vaccines to be given at birth for a neonate?
- b) Define immunity and enumerate its types.
- c) What is the full form of VVM? write its uses.
- d) For which disease Widal test is carried out?
- e) What is the Richest source of Vitamin A?
- f) Which bacteria is known as Koch's bacilli?
- g) Parts of human excretory system -

**Q. 5. Discuss - (Attempt any Three)**

**5×3=15 marks**

- a) Write in detail about Healthcare delivery system in India.
- b) Discuss the ethics in Health care system.
- c) Classify Immunity and write examples of each.
- d) Measures of Central Tendency and Dispersion.
- e) Enumerate the National Immunization Schedule.

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