

Government of India

National Institute of Public Health Training & Research, Mumbai.

First Semester Examination

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

Total Marks - 60

Q.1. Multiple Choice Questions. (All Ten questions are compulsory).

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. Oral polio drops contain

- (a) harvested antibodies
- (b) activated pathogens
- (c) attenuated pathogens
- (d) gamma globulins

3. Which of the following organs is known as the “graveyard” of RBCs?

- (a) Spleen
- (b) Kidney
- (c) Liver
- (d) Gall bladder

4. The basic functional unit of a human kidney is known as

- (a) Nephron
- (b) Pyramid
- (c) Henle’s loop nephron
- (d) Nephridia

5. 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

6. Which of the following statements are false?

- a. Pituitary Gland is found at the base of the brain
- b. Adrenal glands are found on top of the kidneys
- c. Lymph nodes are found only near the neck and armpits
- d. Thyroid glands are ductless glands

7. Flower colour is a

- a. quantitative variable
- b. Qualitative variable
- c. absolute variables
- d. continuous variables

8. Which of the following is not a measure of central tendency?

- a. mean
- b. median
- c. range
- d. mode

9. Which among the following are "Spirochetes"?

- a) Streptomyces sp.
- b) Treponema pallidum
- c) Spirillum volutans
- d) Corynebacterium diphtheria

10. When rod shaped bacteria appears in pairs, it is known as?

- a) Diplobacilli

- b) Streptobacilli
- c) Diplococci
- d) Staphylococci

Q. 2. Answer in one or two sentences. - (Any five) $2 \times 5 = 10$ marks

- a. Define epidemiology
- b. Name 4 live attenuated vaccines used in immunization schedule?
- c. Name the parts of male reproductive system?
- c. Define Blood pressure
- d. For which disease Widal test is carried out?
- e. Name 4 emerging diseases
- f. What is the Richest source of Vitamin A?
- g. Name the different measures of Central Tendency & Dispersion

Q. 3. Write three Difference of each - (Any Three) $3 \times 3 = 9$ marks

- a.) smooth muscles and skeletal muscles
- b.) Cartilage and bone
- c.) right ventricle and left ventricle
- d.) tape worm and round worm

Q. 4. Write short notes - (Any Three) $5 \times 3 = 15$ marks

- A. functions of liver
- B. classification of data
- c. herd immunity
- d. structure of bacterial cell
- e. Universal precautions

Q. 5. Write in brief - (Any Two) $8 \times 2 = 16$ marks

- a. Role & Responsibility of Sanitary Inspector
- b. Classify Immunity and write examples of each
- c. Measures of central tendency and Dispersion
- d Draw detailed diagram of digestive system and mention functions of stomach and liver

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Sanitary Health Inspector
First Semester Examination

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

Total Marks - 60

Q.1. Multiple Choice Questions. (All Ten questions are compulsory).

1. Which of the following immunoglobulins makes the largest percentage in breast milk?

- (a) IgM
- (b) IgD
- (c) IgG
- (d) IgA

2. Heartbeat originates from the

- (a) papillary muscles
- (b) SA node
- (c) AV node
- (d) Purkinje fibres

3. The maximum amount of carbon dioxide in the human body is transported as:

- a) Bicarbonate
- b) Carbide
- c) Amylase
- d) None of the above

4. 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

5. A structural component that is found in all viruses is:

- a. The envelope
- b. DNA
- c. Capsid
- d. Tail fibres
- e. Spikes

6. Peptidoglycan layer is present in large quantity in?

- a) Gram-positive bacteria
- b) Gram-negative bacteria
- c) Fungi
- d) Algae

7. In malaria, the form of plasmodia transmitted from mosquito to human is the

- a. Sporozoite
- b. Gametocyte
- c. Merozoite
- d. Hypnozoite

8. The mode of following data is:

14, 11, 12, 13, 12, 12, 12

A 13

B 11

C 12

D 14

9. Which of the following is the vestigial bony part of the human skeleton?

- a) Cranium
- b) Coccyx
- c) Cervical
- d) Clavicle

10. Which of the following part of the human brain has a center for controlling breathing?

- a) Medulla oblongata
- b) Diencephalon
- c) Cerebrum
- d) Cerebellum

Q. 2. Answer in one or two sentences. - (Any five) $2 \times 5 = 10$ marks

- a.) Which bacteria is known as Koch's bacilli?

- b.) What is VVM?
- C.) Name the hormones secreted by pancreas?
- D.) What is epidemiological triad?
- e.) which are the Vaccines to be given at birth for a neonate?
- f.) write 2 functions of hypothalamus?
- g.) parts of human excretory system

Q. 3. Write three Difference of each - (Any Three) $3 \times 3 = 9$ mark

- a) Small intestine & large intestine
- b) sterilization and disinfection
- c.) Live attenuated vaccine and killed vaccine
- d.) Quarantine and Isolation

Q. 4. Write short notes - (Any Three) $5 \times 3 = 15$ marks

- a. Adrenal gland
- b. Menstrual hygiene
- c. Cold chain maintenance
- d. Infant mortality Rate
- e. immune responses

Q. 5. Write in brief - (Any Two) $8 \times 2 = 16$ marks

- a) Enumerate the National Immunization Schedule
- b) Barriers of communication & how to overcome them
- c) Draw a neat labelled diagram of excretory system and mention functions of kidney
- d) Write in detail about Healthcare delivery system in India