

The West Bengal University of Health Sciences
MBBS 3rd Professional Part-I Examination (New Regulation),
December, 2025

Subject: Community Medicine
Paper: I

Full Marks: 100
Time: 3 hours

Attempt **all** questions and answer in **sequential** order. The figures in the margin indicate full marks.

1. a) A researcher wants to study whether smoking is associated with CNS lymphoma, a rare type of cancer. What is the most appropriate study design that can be used by the researcher? Explain in brief the steps for conducting this study. Describe the advantages and disadvantages of the study. What are the biases that can occur? 1+6+4+4

b) A 7 month old infant was brought at Paediatric OPD with complains of passage of loose stools for more than three times and history of frequent vomiting since last night. On examination, the infant was found restless and drinking eagerly. Classify dehydration. Outline the management of this case as per IMNCI protocol. Write in brief about the feeding of this patient. 2+7+6

2. Write on the following:

a) What is smog? The Air Quality Index (AQI) of your city is falling within the range of 200-300 during the last seven days in the month of January, 2025. What will be the health effects of the above situation? What measures can be adopted to tackle the situation? 2+4+4

b) Define emerging and re-emerging infectious diseases. Explain the public health strategies for their prevention and control. 2+2+6

c) Enumerate the danger signals of cancer. Describe in brief the epidemiology of breast cancer. Discuss the modes of intervention in different levels of its prevention. 4+3+3

3. Write short notes on the following:

2 x 5

a) AEFI.

b) Confidentiality in health care practices.

4. Explain the following statements:

5 x 4

a) Herd immunity does not protect against tetanus.

b) Integrated vector management is important for Malaria control.

c) Incubation period of a disease has many epidemiological importance.

d) Sensitivity and specificity of a screening test is inversely related.

e) In disaster management, "first come first served" rule is not followed always.

5. Choose the correct option for each of the following:

10x1

- i) Diseases subjected to international Health Regulations are all EXCEPT:
a) Cholera b) Small pox c) Plague d) Yellow fever
- ii) Commonest cause of low vision in India is:
a) Cataract b) Glaucoma c) Diabetic retinopathy d) Uncorrected refractive error
- iii) Spot the wrongly matched pair of arthropod and disease transmitted:
a) Housefly-Poliomyelitis b) Louse-Epidemic typhus
c) Itch mite- Scabies d) Black fly- Chagas Disease
- iv) Secondary attack rate denotes:
a) Virulence b) Infectivity c) Pathogenicity d) Communicability
- v) Expired medicines to be disposed in:
a) Yellow bag b) Blue bag c) Red bag d) White bag
- vi) The drug of choice in treatment of scrub typhus infection is :
a) Liposomal Amphotericin B (LAMB) b) Tetracycline
c) Cotrimoxazole d) Benzathine penicillin
- vii) Most Important aspects of International Death Certificate is:
a) Immediate cause of death b) Antecedent cause of death
c) Underlying cause of death d) Precipitating cause of death
- viii) Pink ribbon is the logo for:
a) Oral Cancer b) Cervical cancer c) Colon Cancer d) Breast Cancer
- ix) A study follows a group of people with hypertension and another group without hypertension for 10 years to see the development of coronary heart disease. This is an example of:
a) Case- control study b) Cross- sectional study
c) Prospective cohort study d) Ambispective cohort study
- x) Which of the following disease is newly incorporated under NP-NCD (National Programme for prevention and control of non communicable diseases)
a) Diabetes b) Hypertension
c) NAFLD d) Breast Cancer