

015/23

The West Bengal University of Health Sciences MBBS 3rd Professional Part-I Examination (New Regulation) April - May 2023

Subject : Community Medicine

Full Marks: 100

Paper: I

Time: 3 hours

Attempt all questions. The figures in the margin indicate full marks.

- a) A 10 year old boy has experienced scratching by a street cat on his left leg with oozing of scanty blood. His mother washed the wound casually using water stored in a bucket. The wound has been dressed along with Inj.Tetanus toxoid, administered by a local practitioner who referred him to emergency department of a Medical College and Hospital for anti-rabies vaccine. Write down the line of management for this boy in present situation. Describe the preventive measures for controlling the disease. 10+5
 - b) What is 'carcinoma in situ'? Mention its importance. How is the screening of cervical cancer done at community level? Enumerate the risk factors for cervical cancer. 2+4+5+4
- a) Enumerate the determinants of health. How environmental and socio-economic conditions act as determinants of health in a community?
 - b) Name the different types of biomedical wastes generated in your hospital. Write the measures for their disposal as per national rules.
 3+7
 - c) How epidemiological studies are classified? Briefly describe the steps of case control study to find out the association between lung cancer and smoking.

 4+6
- 3. Write short notes on the following:

2 x 5

- a) Graphical representation of statistical data.
- b) Explain the role of 'Doctor-patient relationship' in community setting.
- 4. Explain the following statements:

5 x 4

- a) Pneumococcal conjugate vaccine has been incorporated in NIS.
- Natural history of disease is best established by cohort study.
- c) Community diagnosis is the first step towards community health action.
- d) Monitoring and surveillance is different in public health.
- e) Zinc is important in treatment of diarrhoea.
- 5. Choose the correct option for each of the following:

10v1

- i) In a community survey, it is found that the prevalence of a disease has been increased from its value determined by a baseline study. What attribute of a screening test is likely to be affected most?
- a) Specificity b) Sensitivity c) Positive predictive value d) Negative predictive value

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- ii) A survey is being planned to be conducted in Urban Health Training Centre (UHTC) of a medical college. In preparatory phase, the investigators are discussing to control the inter-observer error. Finally, they decided to reduce it by all of the following methods except:
- (a) Repeating measurement over time

b) Standardization of procedure of measurement

c) Stringent training of surveyors assessment

- (d) Using two or more observers for independent
- iii) Which one of the following is false about Epidemic?
- a) It is the unusual occurrence of a disease/health related states/events.
- b) It's frequency clearly exceeds the normal 'expected occurrence'.
- c) It's occurrence crosses the 'epidemic threshold' for that disease/health event.
- d) 'Epidemic threshold' is two standard deviation from the endemic frequency.
- iv) Which of the following is the foundation of vital statistics
- a) Census b) Registration of vital events
- c) Sample registration system

- d) Notification of diseases
- (v) Which one of the following is NOT true about inactivated vaccine?
- a) It can stimulate active immunity when injected.
- b) It is safer than the live attenuated vaccine.
- c) It requires booster doses for maintaining immunity.
- (d) It is affected by circulating antibody against the disease.
- vi) A doctor is required to study the incidence of 'Byssinosis' in a cotton textile industry. Which study design should be choose?
- a) Cross-sectional b) Longitudinal
- c) Ecological survey
- d) Case reports
- vii) Specificity of a screening test was found to be 80%. Specificity is the ability of the test to detect
- a) Negative result in those who have the disease.
- b) Positive result in those who have the disease.
- c) Negative result in those who have no disease.
- d) Positive result in those who have no disease.
- viii) Causative agent of an infectious disease is present in the environment, but there is no transmission of the agent. This is known as
- a) Elimination
- b) Control
- c) Eradication
- d) Holoendemic

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- ix) After having grand dinner in a hostel, a number of students were reported to be suffering from pain abdomen, diarrhea and vomiting. Most cases occurred within 8 to 10 hours after dinner, This is an example of.
- a) Common source single exposure epidemic
- b) Slow epidemic
- c) Common source multiple exposure epidemic
- d) Propagated epidemic
- x) A cheap method of sewage treatment is 'Oxidation pond'. It works on
- a) Aerobic principle during night and anaerobic during daytime.
- b) Aerobic principle during daytime and anaerobic during night.
- c) Aerobic principle in both daytime and night.
- d) Anaerobic principle in both daytime and night.