

**One Health Institute**  
**Chittagong Veterinary and Animal Sciences University**  
**Masters in Public Health (MPH)**  
**January-June Semester Final Examination 2019**  
**Course title: Extended Epidemiology and Research Methodology (Theory)**  
**Course code: ERM - 601**  
**Full marks: 40, Time: 2 hours**

(Figures in the right margin indicate full marks. Answer any 4 questions from the following)

1. a. Classify epidemiological study. What are the basic steps in conducting cohort study? 6  
b. Write down the differences between observational studies and experimental studies in tabulated form. 4
2. a. What is 'Bias' in epidemiology? How does bias differ from chance? What types of bias occur in case control study? 6  
b. What are the epidemiological tools? Define MMR according to WHO. 4
3. a. What is epidemiological triad? Write the use of epidemiological triad. What is the central factor? 6  
b. Illustrate your answer with diagram and justification. 4
4. a. Which disease is completely eradicated from the world according to WHO? Which disease is now on the way to elimination in our country? What is the difference between eradication and elimination? 6  
b. What do you mean by Index case? Define SAR with limitations. 4
5. Write short notes on the following topics: 2.5X4
  - a. Agent
  - b. Disease prevention and control
  - c. Screening
  - d. RCT

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**Masters in Public Health (MPH)**  
**January-June Semester Final Examination 2019**  
**Course title: Fundamentals of Public Health**  
**Course code: FPH - 601**  
**Full marks: 40, Time: 2 hours**

(Figures in the right margin indicate full marks. Answer any 4 questions from the following)

1. a. What is the concept of public health? Mention the components of public health? 4  
b. Describe the scope and opportunities of Public Health. 6
2. a. Describe Public Health as a system and identify its functions 4  
b. Describe the existing Public Health provision/system/organogram in hierarchical order in our country with important functions. 6
3. a. Mention history and development of Public Health in British period, or pre independence and post-independence period. 6  
b. Write down outline of Public Health administration in Bangladesh. 4
4. a. What are the most common Public Health problems in Bangladesh? 5  
b. What are the environmental health problems in Bangladesh? 5
5. a. Write a short note on Evidence Based Medicine. 4  
b. What do you mean by Health Planning? What are the purpose and scope of planning? 6

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**January-June Semester Final Examination 2019**  
**Course title: Zoonoses and EIDs**  
**Course code: ZED - 601**  
**Full marks: 40, Time: 2 hours**

(Figures in the right margin indicate full marks. Answer any 4 questions from the following)

1. a. What is Crimean Congo hemorrhagic fever? Mention the organism and vector of CCHF. 2  
b. Describe the mode of transmission of CCHF. 3  
c. Mention the lab tests done to diagnose CCHF. 5
2. a. Classify dengue cases by severity. 5  
b. Describe the clinical features of DHF. 5
3. a. What is encephalitis and viruses causing encephalitis. 3  
b. Describe the clinical features of acute encephalitis syndrome. 3  
c. How will you diagnose Japanese b encephalitis? 4
4. a. Define emerging and reemerging diseases. Mention the important emerging and reemerging diseases of Bangladesh. 5  
b. Classify Zoonotic diseases according to mode of transmission. 5
5. a. Describe the epizootic and enzootic cycle of Ebola virus. 4  
b. What are major strains of Ebola virus. 3  
c. What are the early and late manifestations of Ebola disease. 3

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**January-June Semester Final Examination 2019**  
**Course title: Food Safety and Risk Assessment(Theory)**  
**Course code: FRA - 601**  
**Full marks: 40, Time: 2 hours**

(Figures in the right margin indicate full marks. Answer any 4 questions from the following)

1. a) What do you mean by risk analysis in food? Enlist the working principles for risk analysis for food safety in Bangladesh. 2+3
- b) Draw the Codex risk analysis framework. Briefly describe the steps in a food safety risk assessment? 1+4
2. a) Define food safety risk management according to Codex alimentarius commission. Illustrate the general principles of food safety risk management. 1+4
- b) Construct the food safety risk management process framework comprising four overarching components. 5
3. a) Summarize the food safety communication strategies based on scientific evidence and perceived risk. 5
- b) What do you mean by HACCP? Write down the benefits and stages of HACCP. 1+4
4. a) Write a short note on "Cross Contamination". 4
- b) Elaborate different food preservation techniques. 6
5. a) Define the following terms:  
    Critical Control Point, Deviation, Critical Limit, Corrective Action 2
- b) What is Hazard? Classify hazard. 1+2
- c) Briefly discuss hazard identification step of HACCP. 5

January-June MPH (One Health) Final Examination-2019  
One Health Institute  
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Course Title: Outbreak Investigation and Surveillance (Theory)  
Course code: OIS-601  
Total Marks: 40; Allocated time: 2 hours

Answer any Five (5) questions from the followings:

- Q1. What do you mean by population and sampling? Classify sampling with advantages and disadvantages of each. 8.0
- Q2. Write down the steps of an outbreak investigation. How will you prepare for fieldwork during Ebola outbreak? 8.0
- Q3. What are the purpose of questionnaire in disease investigations? As an example, make a standard questionnaire for perception of avian influenza of LBM salespersons. 8.0
- Q4. Differentiate between survey, monitoring and surveillance. Briefly discuss the surveillance system established in BITID. 8.0
- Q5. Differentiate between active surveillance from passive surveillance. Describe the operational framework of passive surveillance system in SAQTVH. 8.0
- Q6. Classify the common scientific writing. Briefly describe the steps of an original research paper. 8.0

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