One Health Institute
Chattogram Veterinary and Animal Sciences University
Masters In Public Health (MPH)
January-June Semester Final Examination 2023
Subject: Food Safety and Risk Assessment (T)
Course Code: FRA-601

Full Marks: 40   **Time: 02 hours**

[Figures in the right margin indicate full marks. Answer four (4) questions. Split answers are discouraged.]

1. a) What is food hygiene? Write down the difference between food hygiene and food safety along   05
        with importance of food hygiene.

    b) Discuss briefly about sea food and raw fish safety.   05

2. a) What is the difference among detergent, disinfectant and sanitizer? Mention objectives of cleaning   06
        and deduct a cleaning schedule for a food industry.

    b) List down the procedures to be followed during food preparation and storage to avoid food   04
        poisoning.

3. a) Define hazard and risk? Write down benefits of having HACCP system.   04

    b) Rewrite seven principles of HACCP and enumerate on how to identify hazard in a food   02+04
        environment.

4. a) "Risk analysis is a comprehensive tool for risk management"- justify the statement.   03

    b) Summarize risk assessment as a first step in risk analysis.   07

5.   Write a short note on the following: 3+3+4

        Cross contamination, Risk communication, Food Pest

Chittagong Veterinary and Animal Sciences University
One Health Institute
Masters in Public Health (MPH)
January-June Semester Final Examination 2023
Course title: Extended Epidemiology and Research Methodology (Theory)
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. Define epidemiology. Explain the terms: determinants and risk factors.   4
    b. What is a causal pie? Describe it briefly.   6

2. a. Classify epidemiological study designs. What is the main disadvantage of cross-sectional   6
    study? Explain it.
    b. Why we cannot calculate frequency measures in case-control study?   4

3. a. Differentiate incidence from prevalence with examples.   4
    b. What are the tools to measure association between exposure and outcome variables?   2
    c. Explain AR and AF.   4

4. a. Write down the unique characteristics of randomized control trial.   2
    b. To investigate a rare exposure which study design will you choose? Describe it briefly.   5
    c. Explain the terms: epidemic, endemic and hyper endemic.   3

5. Write short notes (any 2):   5X2
    i. Epidemiologic triad
    ii. Observations of Jhon Snow on cholera epidemic in London
    iii. Measures of strength

Chittagong Veterinary and Animal Sciences University
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Masters in Public Health (MPH)
January-June Semester Final Examination 2023
Course title: Zoonoses and EIDs (Theory)
Code: ZED-601
Full marks: 40, Time: 2 hours
(Figures in the right margin indicate full marks, Answer the following questions)

1. a. What is hydatid disease? Mention the forms of Echinococcosis and its causative agents. 2
   b. Describe the mode of transmission of hydatid disease and mention name of definitive, intermediate and accidental host. 3
   c. Mention the lab tests done to diagnose hydatid cyst. 5

2. a. Define DF, DHF and DSS. Classify dengue cases by severity. 5
   b. Describe the clinical feature of DHF. 5

3. a. What is leptospirosis? Describe the mode of transmission of leptospirosis. 3
   b. Describe the clinical pattern of leptospirosis and organs affected in icteric leptospirosis. 3
   c. How will you diagnose leptospirosis? 4

4. a. Define emerging and remerging diseases. Mention the important emerging and Remerging diseases of Bangladesh. 5
   b. Classify Zoonotic diseases according to mode of transmission. 5

Chattogram Veterinary and Animal Sciences University
One Health Institute
MS in Public Health
January-June Final examination 2023
Subject: Outbreak Investigation and Surveillance (Theory)
Code: OIS-601
Total marks: 40; Time: 2 hours

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

1. a. Define surveillance. Explain the differences between active surveillance and passive surveillance.   5
    b. Enlist the steps in developing a surveillance system.   2
    c. What are the general objectives of a surveillance system?   3

2. a. What do you understand by compulsory notification and voluntary notification?   2
    b. What are the advantages and disadvantages of numerator data from compulsory notification and voluntary notification?   4
    c. What are the major drawbacks of active and passive surveillance?   4

3. a. What do you understand by questionnaire? Discuss the characteristics of a good questionnaire?   5
    b. What are the common types of data dissemination methods in a surveillance system?   5

4. a. Define outbreak. What are the purposes of outbreak investigation?   3
    b. Mention the steps in a typical outbreak investigation. Name the personnel should be included in an outbreak investigation team along with their roles.   4
    c. Show a hypothetical common source and propagated source epidemic curve.   3

5. a. What do you understand by sensitivity and specificity of a diagnostic test?   5
    b. Show how sensitivity and specificity inversely vary if we change the cut off value of a test result in a continuous scale.   5

Chittagong Veterinary and Animal Sciences University
One Health Institute
Masters in Public Health (MPH)
January-June Semester Final Examination 2023
Course title: Fundamentals of Public Health
Code: FPH-601
Full marks: 40, Time: 2 hours

(Answer the following questions. Each question has equal marks - 05)

1. Define Public Health. Distinguish between Public Health and Clinical Medicine.
2. What are the levels of prevention? Discuss them with examples.
3. What are the types of health system models? Describe one model with examples.
4. In your opinion, which health system model is followed in Bangladesh? Explain your answer.
5. Mention sustainable development goal 3.2. Mention five (5) causes of under-5 mortality which are preventable.
6. How is Bangladesh doing to reduce under-5 and Child Mortality?
7. Mention SDG 3.4. What are the major risk factors for non-communicable diseases?
8. What is One Health? Mention some One Health issues. Why One Health is important?

Chittagong Veterinary and Animal Sciences University
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January-June Semester Final Examination 2023
Course title: Biostatistics (Theory)
Code: BIO-601
Full marks: 40, Time: 2 hours

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

1. Define Data. Classify Data with example. Write down the method of data collection. What are the methods of data presentation?   10

2. Define and classify sampling. Write down two different types of sampling method you know well.   10

3. What do you mean by a Normal Curve? Write down the characteristics of Normal Curve. Mention the uses of Normal Distribution. What are the other types of distribution?   10

4. Define Hypothesis. Classify Hypothesis with example. Write down the interpretation of a Hypothesis. What are the tests carried to stablish a Hypothesis?   10

5. Write short notes on the following:
   a) Confidence interval b) Standard deviation c) Co-relation d) Regression   2.5X4