

**Chittagong Veterinary and Animal Sciences University**  
**One Health Institute**  
**Masters in Public Health (MPH)**  
**July- December Semester Final Examination 2022**  
**Course title: Anthropology (Theory)**  
**Code: ANP-602**  
**Full marks: 40, Time: 2 hours**

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

- 1 Define 'culture'. Write four characteristics of culture. Social Scientists stated, 'culture is symbolic'. Give four examples from the context of your own society on the basis of the statement. 2+4+4
2. Define 'anthropology'? What are the main differences between biological anthropology and socio-cultural anthropology. Discuss the importance of anthropology in public health. 2+3+5
- 3 What do you mean by 'anthropology of infectious disease'. Give two examples of anthropological contributions to infectious disease control strategy in the context of Bangladesh. Is there any relationship between human biology and cultural changes? Discuss. 2+4+4
- 4 What are the primate studies and paleoanthropology? Discuss the major differences between the primate studies and paleoanthropology? What types of infectious diseases are found in hunting-gathering populations? Usually said, 'Hunting-gathering populations do not experience epidemics. To what extent do you agree or disagree with the statement? Discuss. 2+2+2+4
- 5 What do you mean by 'one health approach'? Discuss the development of one health approaches. Write four importance of anthropology in one health approach. 2+4+4

**Chattogram Veterinary and Animal Sciences University (CVASU)**

**One Health Institute**

**Master of Public Health (MPH)**

**July-December Semester Final - 2022**

**Course Title: Communication and Behavior (Theory)**

**Course Code: COB-602**

**Time: 2.00 Hours**

**Total Marks: 40**

**Answer any 5 questions from the following where question no (d) is compulsory (5 x 8 = 40)**

- a. What do you mean by Communication? What is Health Communication? Write different types and forms of Communication.
- b. What is Health Behavior? What are the top health behaviors for a healthy person? Mention and write in brief.
- c. What do you mean by Communication Barriers? Give some examples of Communication Barriers with short descriptions.
- d. What is BCC? How BCC approaches could be used in a community to prevent Mosquito Borne Diseases (MBDs)?
- e. What do you know about Behavioral Sciences? Mention different types of Health Behaviors with short descriptions.
- f. Do you think Health Communication is important for target community people? What are the importances of Health Communication?
- g. Mention the Determinants of Behavior. What are the stages of Behavior change? Mention and write in brief.
- h. What do you know about communication models? Give some examples of communication models with short descriptions.

**Chittagong Veterinary and Animal Sciences University**  
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**Masters in Public Health (MPH)**  
**July-December Semester Final Examination 2022**  
**Course title: Health Economics, Policy Planning and Ethics (Theory)**  
**Code: HEP-602**  
**Full marks: 40, Time: 2 hours**

(Figures in the right margin indicates full marks. Answer any 5 questions from the following)

- |    |  |   |
|----|--|---|
| 1. | a. Define health economics.  | 2 |
|    | b. Write its importance.   | 2 |
|    | c. Briefly describe different types of economic evaluation.                              | 4 |
| 2. | a. What is opportunity cost?   | 3 |
|    | b. Hydrocele operation in government hospital is not cost effective now a day – justify. | 5 |
| 3. | a. Define ethics.  | 1 |
|    | b. Briefly describe principles of research ethics.                                       | 3 |
|    | c. Write very important 4 articles of Helsinki declaration.                              | 4 |
| 4. | a. Briefly describe research ethics related to animal.                                   | 4 |
|    | b. Briefly describe 4 issues of publication ethics.                                      | 4 |
| 5. | a. Write 4 objectives of national health policy.   | 4 |
|    | b. What are the common problems of our health care delivery system?                      | 4 |
| 6. | a. Draw planning cycle.  | 3 |
|    | b. Describe different types of planning process.   | 5 |
| 7. | Briefly describe 8 modern professional misconducts.                                      | 8 |

**One Health Institute**  
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**Masters in Public Health. EOH-602**  
**Semester Final [July – December], 2022**  
**Subject: Environmental and Occupational Health**

**Time = 02 hours**

**Marks: 5x8=40**

**Group- A. Environmental Health [Answer any four question] 5x4=20**

1. a. What are the sources of medical wastes? b. Narrate the health problems created by the improper disposal of medical wastes. 3+2=5
2. a. How the diseases are transmitted by the vectors? b. Illustrate the integrated measures to control the vector borne diseases. 2+3=5
3. a. What are causes of air pollution in Dhaka city? b. Make a plan to make Dhaka a green city. 2+3=5
4. a. Write down a pen picture on arsenic contamination of drinking water in Bangladesh. b. How the situation can be controlled in Bangladesh? 4+1=5
5. a. Describe the effect of radiation on human being. b. What plans can be taken to prevent the harmful effects of radiation? 3+2=5
6. Write down short notes [ any two] 2.5x2=5
  - a. Biodiversity b. Water borne diseases c. Sick building syndrome d. Air condition. e. Batophobia

**Group – B. Occupational Health [Answer any four question ] 5x4=20**

1. a. What are the importance of occupational health? b. Narrate the situation in Bangladesh perspective. 2+3=5
2. a. What is stress and strain? b. What measures can be taken to reduce the stress and strain from the Garments workers? 2+3=5
3. a. What are the factors responsible for increased RTA in Bangladesh? b. As a person on public health background, make a sketch on remedial measures. 3+2=5
4. a. Define public health. b. Explain the importance of public health in our practical life. 2+3=5
5. a. In some occupations, workers have to face extreme heat. Discuss the health effects of this exposure. b. What are the effects of cold? 2+3=5
6. Write short notes [any two] 2.5x2=5
  - a. Offensive trades b. First aid c. Sickness absenteeism d. Occupational dermatitis.

**Chittagong Veterinary and Animal Sciences University**  
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**Masters in Public Health (MPH)**  
**July-December Semester Final Examination 2022**  
**Course title: Application of GIS and IT in Public Health (Practical)**  
**Code: GIP-602**  
**Full marks: 20, Time: 1 hour**

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

**Dataset: Helicobacter in humans**

*Helicobacter pylori* infection in humans is a common cause of peptic ulcer. This data set contains data from 200 humans distributed in Chattogram division. Screening for *Helicobacter pylori* was done by culture technique followed by PCR. Use this data set to complete the following tasks:

1. Show the *Helicobacter pylori* positive and negative human (diagnosed by culture and PCR) locations in Chattogram division in digital map of Bangladesh. Do you see any pattern in the maps? 12
2. Construct a map with the given data to show the age distribution of the study subjects. 08

**(Export all maps as PDF (save with appropriate names) and send to sharminchowdhury@cvasu.ac.bd)**

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**Code: HEP-602**

**Full marks: 20, Time: 1 hour**

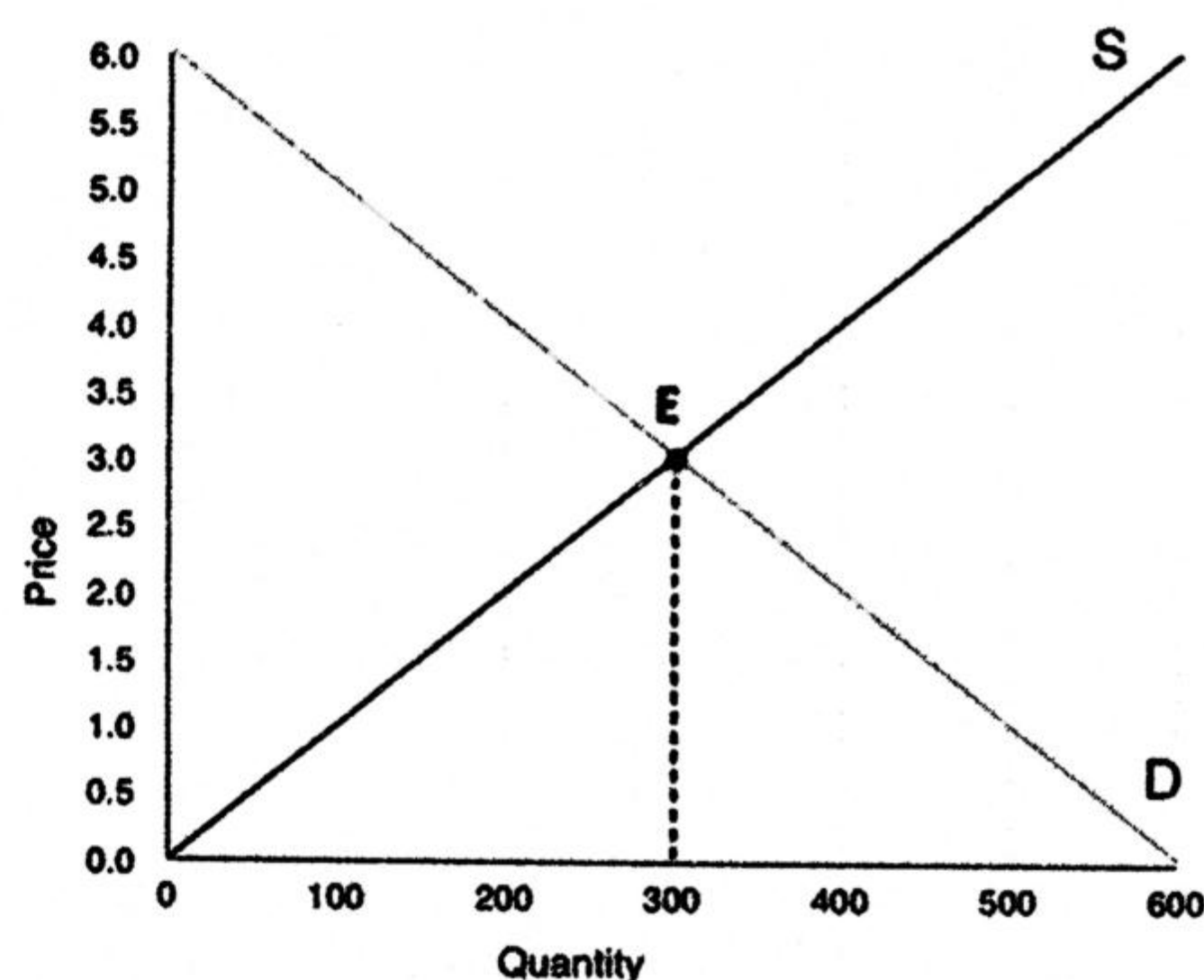
(Answer the following questions. Each question contains equal mark (4X5))

1. On your third day of joining a new Hospital, a physician comes into your office and asks for advice. The physician has received data from an ongoing clinical trial, in which case they have collected health-related quality of life (HRQoL) from patients. One patient has reported the following HRQoL:
  - From baseline (0 months) and until 6-month follow-up: 0.62
  - From 6 months follow-up and until 12-months follow-up: 0.8
  - a) Explain what is meant by quality-adjusted life-years (QALYs)
  - b) Draw a QALY diagram and calculate the associated QALYs during the time from baseline until the 12-month follow-up.
2. The hospital is deciding between alternative rehabilitation programs (E1, E2, and E3), which are mutually exclusive. The following table shows the QALYs gained, and costs are measured against the alternative of doing nothing.

Programs	Cost (US\$)	QALY gain
E1	250,000	87
E2	170,000	60
E3	90,000	62

Calculate the incremental cost-effectiveness ratios. Which program should the hospital implement if the willingness-to-pay threshold is US\$ 50,000 per QALY gained?

3. From the following diagram, calculate the consumer and producer surplus for equilibrium point E. Now that the market is not functioning at the equilibrium point and running at a price 4 \$ instead of 3\$ - calculate the dead-end loss of the market.



4. For reducing body weight, you have two different options—interventions A and B. A reduces 20kg, and B reduces 40 kg compared to no treatment. You could spend a maximum 600\$ for the weight loss program. The maximum patient you could treat is 150. Draw a linear programming graph and mark the feasible area. Further, give your optimum solution for this problem.

Write down the difference between any two pairs:

- a. QALY Vs. DALY
- b. Cost-benefit analysis Vs. Cost-utility analysis

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**Full marks: 20, Time: 1 hour**

(Figures in the right margin indicate full marks)

(Answer any 4 questions from the following where question no.1 is compulsory )

You have been given a context of patient referral system. Based on the given context below develop a research question, objectives, propose data collection method, select participants, develop data collection guidelines, and data analysis plan for an exploratory (anthropological) research in the hospital setting of a low-resource country like Bangladesh.

**Context:**

Patient referral to hospitals, specialists and other health facilities is an essential part of primary health care (PHC). Patients are referred to specialists when investigation or therapeutic options are exhausted in primary care or when opinion or advice is needed from them. Competent referral system has considerable impact for patients, health care system and health care costs. There is no strong referral system in Asian countries, including Bangladesh, and any patient can go to any level of health care facility without any referral. This poses a burden on the secondary and tertiary level hospitals or health settings where a large number of patients with minor ailments throng the outpatient departments (OPD) and increases the bulk of patients who can be easily tacked at the lower level health care setting.

1.	Based on the given context, develop research questions.	5
2.	What will be the objectives of this study?	5
3.	What will be your sampling strategy? Who will be your potential participants conducting this study? Make a table of the sampling.	1+2+2
4.	Select appropriate data collection methods that will be suitable to meet your research question, and discuss data collection for the study.	2+3
5.	Develop data collection guidelines for one category of participants/methods.	5
6.	What type of qualitative data analysis method will you follow for this study? How would it be related to the study data?	2+3



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**Course Code: COB-602**

**Time: 1.00 Hour**

**Total Marks: 20**

**Answer the following question (1 x 20 = 20)**

- a. Design a Health Communication approach in a hill track area as a Health Camp regarding prevention of Mosquito Borne Diseases (MBDs) and prevention of different risky Health Behaviors among the hill track area community people by using a suitable Communication Model. Mention the probable communication challenges and limitations of the Health Camp.