



UNIVERSITY OF ESWATINI  
Faculty of Health Sciences  
Department of Environmental Health Science

DEGREE IN ENVIRONMENTAL HEALTH SCIENCE  
**MAIN EXAMINATION PAPER 2018**

TITLE OF PAPER : ENVIRONMENTAL PROJECT DESIGN  
AND MANAGEMENT

COURSE CODE : EHM405

DURATION : 2 HOURS

MARKS : 100

INSTRUCTIONS :

- : READ THE QUESTIONS & INSTRUCTIONS CAREFULLY
- : **QUESTION ONE IS COMPULSORY THEN ANSWER ANY OTHER THREE QUESTIONS**
- : EACH QUESTION **CARRIES 25** MARKS.
- : WRITE NEATLY & CLEARLY
- : NO PAPER SHOULD BE BROUGHT INTO THE EXAMINATION ROOM.
- : BEGIN EACH QUESTION ON A SEPARATE SHEET OF PAPER.
- : **INDICATE YOUR PROGRAMME OF STUDY**

DO NOT OPEN THIS QUESTION PAPER UNTIL PERMISSION IS GRANTED BY THE INVIGILATOR.

### QUESTION 1

Many organizations in the country have adopted the project concept. This includes the likes of Swaziland Water Service Cooperation and government ministries. As an aspiring working class it is important for you to understand this concept as in the next few months you will be employed by these organizations to run their projects. Discuss the project concept in terms of the following:

- a) Definition. [2]
- b) Characteristics. [5]
- c) Parameters. [8]
- d) Project management process. [10]

**Total=25 marks**

### QUESTION 2

Ministry of Health has received a grant from United States Agency for International Development (USAID). This grant is aimed at addressing adolescents needs in the country. The ministry identified your department to spearhead this project. However it is important to note that this project needs a new organization design as its success is dependent on this design, thus a need for a strong project organization.

- a) What is meant by project organization? [1]
- b) Explain the importance of the project organization. [4]
- c) What are the 2 factors to consider in the design of the project organization? Explain them. [4]
- d) What type of project structure will you use for this project? Explain this structure in terms of the following:
  - i) Definition. [3]
  - ii) Five advantages. [5]
  - iii) Three disadvantages. [3]
  - iv) Illustrate this structure using a flow chart. [5]

**Total=25marks****QUESTION 3**

Monitoring and evaluation of project activities is crucial for the success and sustainability of projects. An organization is looking for monitoring and evaluation officer to assist in ensuring the success of its intervention. You are suitable candidate for this post. Discuss the following key points as a means of advertising your expertise:

- a) Meaning of evaluation and how evaluation is different from monitoring. [8]
- b) Importance of evaluation. [3]
- c) Different types of evaluating studies. [4]
- d) The organization's vision is to improve the health status of the population. The project you will be working under is aimed at ensuring a clean and safe community where waste is a thing of the past.
  - i) What could be one possible specific objective under such a goal? [2]
  - ii) Use an evaluation matrix for the above objective (i) to elaborate on this objective. Your matrix should include not less than 4 evaluation areas. [8]

**Total=25 marks****QUESTION 4**

In the design of health projects, community definition and characterisation is a cornerstone for effective identification of health needs and designing appropriate interventions.

- a) Explain the 5 pieces of required information in community identification and characterisation. [5]
- b) Community identification and characterisation is otherwise known as a need assessment. Discuss the importance of a needs assessment in health project design. [5]
- c) Once the health needs are identified, there is a need to prioritize them.
  - i) What is the importance of prioritizing these health needs? [3]
  - ii) Discuss 5 approaches of prioritizing health needs. [10]

- iii) Many times, information from a community is incomplete; explain how this is taken care of in the prioritization stage. [2]

**Total=25 marks**

**QUESTION 5**

World Vision is an international organization working in developing countries to improve the life of communities in developing countries. You have been offered a position to lead a project for three years, i.e. 3 year working contract. The priority health need has been identified, yours is to do a detailed assessment and implement an appropriate project intervention. You will need to identify the supportive staff member to work with and advertise once you have conducted the detailed assessment.

- a) What type of project structure is World vision using for this project? Explain your answer. [3]
- b) What is the name given to the supportive staff member in project design? [2]
- c) What is the importance of this staff? Explain in detail. [3]
- d) Explain why this detailed assessment is important for your project. [5]
- e) The priority need identified was high unemployment rates in the community. Explain the 3 factors that you will assess which direct the case for action for your intervention. [3]
- f) Who are the people you will involve in your detailed assessment. State 3 and explain their importance or role they will play also stating how you will collect information from them. [9]

**Total=25 marks**