



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

DEGREE IN ENVIRONMENTAL HEALTH SCIENCE
MAIN EXAMINATION PAPER 2017

- TITLE OF PAPER : ENVIRONMENTAL HEALTH 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
 - : INDICATE YOUR PROGRAM IN YOUR ANSWER SHEET
 - : NO PAPER SHOULD BE BROUGHT INTO THE EXAMINATION ROOM.
 - : BEGIN EACH QUESTION ON A SEPARATE SHEET OF PAPER.

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

QUESTION 1

You are hired by the Government of Swaziland whose vision is to be a first world country by 2022. You are hired under the Ministry of Health portfolio whose vision is to ensure healthy Swazis. You are the health promotion manager in the Ministry whereby your duties include overseeing projects implemented in the country.

- a) What is meant by portfolio and how is it related to the organisation? [4]
- b) What is the relationship between portfolio, program and projects? [6]
- c) As part of your job, you are to manage this project.
 - i) What is meant by the project management? [2]
 - ii) Discuss the features of project management. [10]
 - iii) What are the **three** things that define organisation? [3]

[25 MARKS]

QUESTION 2

The Ministry of Health is known for using programmatic based management structure.

- a) Discuss this structure under the following headings:
 - i) Definition [3]
 - ii) Diagrammatic structure using appropriate examples [5]
 - iii) Advantages [5]
 - iv) Disadvantages [5]
- b) What are the factors to consider in the choice of organisational structure? [4]
- c) How is this structure (programmatic) different from project structure? [3]

[25 MARKS]

QUESTION 3

Project managers are tasked with ensuring the success of the projects they manage.

- a) Discuss **five** project success factors [10]
- b) Discuss **five** reasons for project failure [10]
- c) Define the key features of projects [5]

[25 MARKS]

QUESTION 4

Organisation uses intervention mapping for their projects to be implemented.

- a) Discuss the intervention mapping in terms of:
 - i) Definition [2]
 - ii) Purpose [3]
- b) Community Y is a community in the Lubombo region of the country. The community is faced with increasing unemployment rate and high mortality rate. This community has only **one** primary school close by and a high school which is 15 km away from the community. This has led to the community to have a majority of their members lowly educated (63% with only primary education) thus making the unemployable in our current workforce. HIV prevalence in the community is 48% and the community lacks basic infrastructure such as water, electricity and SPTC lines/ connections. Most of the employed people (which are 3% of the total people) work in the sugarcane plantation as sugarcane cutters.
 - i) Using the steps involved in the root cause analysis, recommend a possible program to assist in improving the health status of this community. [20]

[25 MARKS]

QUESTION 5

The epidemiologic triad is useful in implementation of appropriate health projects. A project aimed to increase the uptake of the current HIV prevention pill in the country has employed you to help in the successful implementation of the project.

- a) Using the epidemiologic triad, map up the interventions to implement on the three constructs of the triad. [10]
- b) It is important that this intervention is planned adequately to ensure its success.
- i) Why is planning important in ensuring the success of project? [5]
- ii) Explain five things to consider as you plan for the above intervention. [10]

[25 MARKS]