



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

DEGREE IN ENVIRONMENTAL HEALTH SCIENCE
MAIN EXAMINATION PAPER 2019

TITLE OF PAPER : ENVIRONMENTAL HEALTH PROJECT DESIGN AND
MANAGEMENT

COURSE CODE : EHS405

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 PROGRAM**

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

QUESTION 1

You are hired as a project manager by a construction company and this is a three year contract with no contract renewal prospects. Discuss the following with regard to the job title.

- a) Roles. [3]
- b) Responsibilities. [2]
- c) Process of project management. [10]
- d) The project organizational structure in terms of the following:
 - i) Definition. [2]
 - ii) Advantages. [4]
 - iii) Disadvantages [4]

[25 MARKS]

QUESTION 2

Health projects are designed to meet the needs of the community. However, communities are faced with a number of health needs. Discuss therefore the role of community oriented primary care (COPC) in the design of these community health projects or intervention in terms of stages of the COPC cycle. [25]

[25 MARKS]

QUESTION 3

The intervention mapping has been used as one of the methods in designing health project. This model has proved to be successful in ensuring that such projects are successful in meeting the needs of the community.

Using a community of your choice as an example, discuss the intervention mapping stages and use appropriate examples. [25]

[25 MARKS]

QUESTION 4

In the 5 Kark cardinal questions, intervention is aimed at addressing what needs to be done, what are the expected outcomes. There are 4 steps that are involved at this stage.

- a) Discuss these 4 stages in depth. [8]
- b) Using the socio-ecological model, discuss the different levels of interventions. [10]
- c) Why is defining the target population key in the success of health interventions? [3]
- d) What are the different approaches in implementing health interventions/projects? [2]

[25 MARKS]

QUESTION 5

Company X is interested in applying for a grant to implement water and sanitation project funded by the Bill Gates Foundation. The company has therefore advertised a post for a project manager who will assist in coming up with project documents. However, firstly, the company must conduct a needs assessment.

- a) Discuss the process of conducting a needs assessment. [12]
- b) Explain the different types of needs. [8]
- c) Name 5 possible health indicators that may be related to this project. [5]

[25 MARKS]