



PROGRAMME : B-TECH: ENVIRONMENTAL HEALTH
MODULE : ENVIRONMENTAL WASTE MANAGEMENT IV
CODE : EWM411
DATE : 7 NOVEMBER, 2014
DURATION : 180 MINUTES
WEIGHT : 50:50
TOTAL MARKS : 150

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MODERATOR : MS MMAPULA TJALE
NUMBER OF PAGES: 2 PAGES

INSTRUCTIONS:

1. READ ALL QUESTIONS CAREFULLY BEFORE YOU ANSWER.
 2. PLEASE ANSWER ALL QUESTIONS.
 3. PLEASE WRITE CLEAR AND LEGIBLY.
 4. LEAVE SPACES BETWEEN QUESTIONS.
 5. STUDENTS MAY NOT DISCUSS ANSWERS TO QUESTIONS AMONGST THEMSELVES.
 6. DO NOT SPLIT THE ANSWERS TO QUESTIONS. IF SO, ONLY THE FIRST SECTION OF ANSWERS WILL BE MARKED.
 7. USE BLUE/BLACK INK PENS ONLY TO ANSWER YOUR QUESTIONS.
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QUESTION 1

The principle “Cradle-to-grave”, is commonly used by all solid waste management stakeholders including Environmental Health Practitioners (EHPs). As an EHP working for City of Johannesburg Metropolitan Municipality, what information are you going to provide to a newly appointed Minister of Environmental Affairs during his orientation to the department in order for him to understand this concept? **[20]**

QUESTION 2

The Basel Convention was established to restrict trans-boundary movement and disposal of hazardous and infectious waste. You are an EHP working between Mozambique and South Africa boarder gate, what action are you going to take in line with the convention when you come across a truck that is loading hazardous/ infectious waste on its way to South Africa? **[20]**

QUESTION 3

3.1 The concepts “Reuse, reduce, recycle and recover”, are commonly used by all solid waste management stakeholders including Environmental Health Practitioners (EHPs) during public awareness campaigns on solid waste management. As an EHP working for Ekurhuleni municipality, what message are you going to convey to public members during your awareness campaign in order for them to understand why the concepts exist? **(20)**

3.2 A draft waste management plan is drawn up using data that has been collected and certain aspects must be included in this plan. Name and elaborate any five of these aspects. **(5)**

[25]

QUESTION 4

4.1 In line with Environmental Impact Assessment (EIA) the Basic Assessment Report (BAR) must provide the Competent Authority with enough information to consider the

application and to reach a decision on whether to grant or refuse environmental authorization. Provide a detailed information that should be contained in the BAR. (20)

4.2 What is the role of environmental health practitioner in environmental impact assessment? Explain. (10)

[30]

QUESTION 5

Provide a comprehensive information on important factors that are involved in the site selection of a landfill site. [20]

QUESTION 6

Certain requirements must be met in order for a landfill to qualify as an ideal landfill site. Discuss these requirements.

[15]

QUESTION 7

7.1 You are an EHP working for Charlotte Maxeke Johannesburg Academic Hospital and during the course of your normal working day; you meet two gentlemen at the hospital corridor whom you suspect to be President Jacob Zuma and Minister of Health, Dr. Aaron Motswaledi. The two gentlemen need an information from you on various functions of different personnel in the hospital but are more interested on the functions of a local waste manager. What information are you going to put on table for them? Elaborate. (15)

7.2 Name any five important legislations that are relevant to solid waste management in South Africa. (5)

[20]

TOTAL = 150 MARKS

GOOD LUCK!!!