

Name:	
Enrolment No:	

**UNIVERSITY OF PETROLEUM AND ENERGY STUDIES**

**End Semester Examination, December 2018**

**Course: Water supply, Refugee Health and Sanitation in Emergency (HSFS 8010) Semester: III<sup>rd</sup>**

**Programme: M.Tech (HSE-DM)**

**Time: 03 hrs.**

**Max. Marks: 100**

**Instructions: All questions are compulsory to attempt**

**PAPER I**

**SECTION A**

S. No.		Marks	CO
Q 1	What do you understand by close setting and open setting during an emergency.	04	CO1
Q 2	Analyze the term “cross contamination” and how it can be avoided.	04	CO2
Q 3.	Mention the different stages of an emergency with key points.	04	CO4
Q 4.	What do you understand by Humanitarian agencies and discuss their roles during an emergency.	04	CO4
Q 5	Enlist the classification of a health care waste with suitable examples.	04	CO5

**SECTION B**

Q 1	Write down the different ways for erosion protection in a drainage channel.	10	CO3
Q 2	Write about emergency settlements and also discuss various factors considered for site selection after disaster.	10	CO4
Q 3	Explain in detail the administrative structures for management of dead bodies during emergency situations.  OR Discuss the different steps of Rapid Assessment process during emergency management.	10	CO6  CO4
Q 4	Explain in detail the different areas which can be intervened by NGO during disaster with critical points.	10	CO4

**SECTION-C**

Q 1.	What do you understand by Hygiene promotion. Mention various areas of concern in hygiene promotion and explain the key principles of hygiene promotion. Also mention various areas of training to promote hygiene	20	CO2 & CO5
Q 2.	a). Explain in detail the seven core concepts of Environmental Health. .  b). Mention different types of environmental health hazards along with suitable examples.  OR a). What do you understand by Dose-response analysis of a toxicant. Also explain in	13  07  10	CO1  CO1  CO5

	<p>detail the relevance of Dose-response curve along with critical points.</p> <p>b). Around 3000 families are living in an emergency settlement. Each family consists of 4 members. During the first week, 5 died, 3 got infected by malaria, 7 got infected by Ebola. During second week, no one died, 8 got infected by malaria, none got infected by Ebola. During Third week, 4 died, 2 got infected by malaria, 2 got infected by Ebola. During the fourth week, no cases have been registered. Calculate the Mortality rate and Morbidity rate of various diseases.</p>	<b>10</b>	<b>CO1</b>
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**PAPER II**

**SECTION A**

S. No.		Marks	CO
Q 1	What do you understand by crude mortality rate and crude morbidity rate.	04	CO1
Q 2	Enlist the steps involved for effective solid waste management in an affected area.	04	CO2
Q 3.	What do you understand by Composting. Also mention its advantages and constraints.	04	CO5
Q 4.	Write down the NGO different areas of intervention during a disaster.	04	CO4
Q 5	Mention the various types of clinical and non-clinical waste arising from hospitals.	04	CO5

**SECTION B**

Q 1	Explain in detail the seven core concepts of Environmental Health.	10	CO1
Q 2	Discuss the different control measures/methods to be implemented for reduction of risk to vector-borne diseases.	10	CO5
Q 3	Explain in detail the relevance of Dose-response curve along with its critical points.  OR  Discuss the key recommendations to be followed for the disposal of dead bodies in emergency situations. .	10	CO5  CO6
Q 4	Around 3500 families are living in an emergency settlement. Each family consists of 4 members. During the first week, 4 died, 2 got infected by malaria, 5 got infected by Ebola. During second week, no one died, 6 got infected by malaria, none got infected by Ebola. During Third week, 6 died, 3 got infected by malaria, 3 got infected by Ebola. During the fourth week, no cases have been registered. Calculate the Mortality rate and Morbidity rate of various diseases.	10	CO1

**SECTION-C**

Q 1.	Explain in detail about various ways of managing Human excreta during an emergency. Also mention its advantages and disadvantages.	20	CO5
Q 2.	a). Write down the different drainage components for a road along with their critical points.  b). Write about emergency settlements and also discuss various factors considered	10	CO3

	<p>for site selection after disaster.</p> <p style="text-align: center;">OR</p> <p>a). Mention various areas of concern in hygiene promotion and explain the key principles of hygiene promotion. Also mention various areas of training to promote hygiene.</p> <p>b). Explain in detail the different steps of Rapid Assessment process during emergency management.</p>	<p><b>10</b></p> <p><b>10</b></p> <p><b>10</b></p>	<p><b>CO4</b></p> <p><b>CO2 &amp; CO5</b></p> <p><b>CO4</b></p>
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