

# THE PAPUA NEW GUINEA UNIVERSITY OF TECHNOLOGY DEPARTMENT OF COMMUNICATION & DEVELOPMENT STUDIES

#### **SEMESTER 1, 2022 EXAMINATION**

#### CD214 DISASTER AND RISK MANAGEMENT

### **QUESTION PAPER**

DATE: WEDNESDAY 6<sup>th</sup> JUNE, 2022 <u>TIME</u>: 12:50 am – 03:50 pm. <u>VENUE</u>: CDS

Rooms

MARKS: 80 WEIGHTING: 50% EXAMINER: MR. KURI

### **INSTRUCTIONS**:

 Write your Student ID No., Name, Subject Code (CD214), Course of Study (Communication and Development) & Year of Study (BACD 2), Examination Date, and Signature on the ANSWER BOOKLET. DO IT NOW!

- 2. You have 10 minutes reading time and 3 Hours to do the EXAM.
- 3. There are 5 SECTIONS with 27 QUESTIONS in this exam. You are required to answer ALL questions. The marks are indicated next to each question. Write <u>ALL</u> answers to the questions in the <u>ANSWER BOOKLET</u> provided. No additional material will be attached to the answer booklet.
- 4. NO ELECTRONIC DEVICES, MOBILE PHONES and BAGS are allowed in the room. ONLY your stationery (i.e. ruler, biros) is allowed. Place your ID card next to you to be checked by the Exam Invigilator.
- 5. RULE a line through <u>any mistakes</u>; correction fluid is not allowed. No additional papers will be provided; you are to use the blank side of the exam sheets for rough work.
- 6. Check that you have pages numbered 1 to 6 on your Exam Paper. The exam contents are as follows:

SECTION	QUESTION NO.	PAGE NO.	MARKS
A. MULTIPLE CHOICES	1 – 15	2 – 3	15
B. MATCHING	16	3 – 4	10
C. COMPREHENSION	17	4 – 5	10
D. SHORT ANSWERS	18 – 26	5 – 6	25
E. SUMMARY WRITING	27	6	20
E. SUITA	80		

SECTION A: MULTIPLE CHOICES (15 MARKS)

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For qu	sestions $1 - 15$ below, select the correct an	swers from the choices given.		
Q1.	All individuals who occupy a housing ur	it as their usual place of residence refer to a:		
	A. family B. household	C. community D. population		
Q2.	Which of the following concepts is measure	sured by the "exposure and proximity" to a disaster?		
	A. disaster B. hazard	C. risk D. vulnerability		
Q3.	Which of the following is the correct ord	der of disaster risk management process?		
	A. Identification, monitoring, analysis, to B. Evaluation, identification, analysis, to C. Identification, analysis, treatment, monitoring.	reatment, and monitoring onitoring and evaluation analysis and evaluation		
Q4.	When epidemiologists conduct studies of finding out:	on a disaster affected population, they are interested in		
	<ul><li>A. Diseases, sicknesses and spread.</li><li>B. Casualties suffered in the disaster.</li></ul>	<ul><li>C. Vulnerable population.</li><li>D. Number of deaths in a family.</li></ul>		
Q5.	The resulting consequences suffered by can be caused by:	Ukrainians in the war between Ukraine and Russia		
	<ul><li>A. Primary disasters.</li><li>B. Secondary disasters.</li></ul>	<ul><li>C. Complex disasters.</li><li>D. Technological equipment.</li></ul>		
Q6. During which phase of a disaster cycle should you conduct as population?		should you conduct assessments of vulnerable		
	A. preparedness phase B. response phase	C. recovery phase D. mitigation phase		
Q7.	Developing actions and policies to red	ace disaster-related risks to people and properties is:		
•	<ul><li>A. Preparation for disasters.</li><li>B. Preparation for mitigation.</li></ul>	<ul><li>C. Preparation for recovery.</li><li>D. Preparation for rescue.</li></ul>		
Q8.	Covid-19 disease outbreak is an examp	ole of a:		
	<ul><li>A. Natural disaster.</li><li>B. Human-induced disaster.</li></ul>	<ul><li>C. Technological disaster.</li><li>D. Multiple disasters.</li></ul>		
Q9.	A term that describes a condition of urgent need for action or assistance refers to:			
<b>Ψ</b> /·	A. Human impact. B. Emergency.	C. Disaster. D. Risk.		

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Q10.	Relaying messages about the existence of danger at the danger:	and what needs to do to prevent, avoid or minimize
	A. Communicating. B. Campaigning.	C. Awareness D. Warning.
Q11.	The actions taken to return the community to	normal following a disaster refers to:
	A. Preparation of a community. B. Rescue a community.	C. Awareness of a community. D. Recovery of a community.
Q12.	Which of the following statements is true about by	shfires? A bushfire is:
	A. A hazard. B. A disaster.	C. Natural disaster. D. Human induced disaster.
Q13.	One of the possible ways to categorise hazard	s is through:
	<ul><li>A. Analyzing its origin.</li><li>B. Assessing its scope of destruction.</li></ul>	<ul><li>C. Identifying its risk factors.</li><li>D. Looking at history of its disaster.</li></ul>
Q14.	In which phase of disaster management would	d you expect to see more direct health effects?
	A. Preparation. B. Rescue.	C. Recovery. D. Mitigation.
O15	Inability to resist a hazard or respond to wher	a disaster has occurred refers to:

A. Effects of poverty.

C. Cause of vulnerability.

B. Poor hazard communication.

D. Lack of good DRM planning.

## SECTION B: MATCHING (10 MARKS)

Q16. Match the numbered, and mixed up descriptions/definitions on the right with their correct concepts on the left. Write the description/definition number on the first column beside the correct concept.

Your	Words	No	Descriptions/Definitions
Answer	hazard	1	A temporary movement of people from identified danger zones to designated safe houses/centres in order to protect their lives.
	capacity	2	A collection of techniques designed to identify quickly the basic and health needs of a community.
	human impact	3	Ability to perform by using available resources to reduce the effects of disaster.
	contingency plan	4	The use of epidemiology to measure the short- and long-term health effects of disasters and to predict the consequences of future disasters.
	rapid needs assessment	5	The ability of a system, community or society exposed to hazard to resist, absorb, accommodate to and recover from the effects of a hazard in a timely and efficient manner.

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emergency management	6	A public health practice used to assess health effects, monitor the effectiveness of relief efforts, respond to public concerns and media inquiries, and facilitate planning for future disasters.	
evacuation	7	A list of activities taken by the people to prevent/mitigate the loss of life, livelihoods and property in case a disaster occu	
disaster surveillance	8	Injury, death or health effects on humans as a result of a disaster.	
 disaster epidemiology	9	A possible source of danger which may cause injury, harm or death.	
resilience	10	Organization and control of resources and responsibilities to deal with immediate crises, in preparedness, response and initial recovery steps.	

## **SECTION C:** READING COMPREHENSION (10 MARKS)

Q17. Read the passage below and select the correct words from the given list at the top to fill in the blank spaces. Each word must be used <u>once</u> only. Leave out the one that does not belong.

### Natural hazards and disaster risk reduction

- hazards losses, vulnerable, multiple, educating, sustainable, disasters, risk, violent, combination, countries.
Natural hazards are severe and extreme weather and climate events. Although they occur in all parts of the world, some regions are more(1) to certain hazards than others. Natural hazards become disasters when people's lives and livelihoods are destroyed.
The global expected average annual loss in the built environment associated with tropical cyclones (wind and storm surge), earthquakes, tsunamis and floods is now estimated at US\$314 billion. This risk presents a real challenge to the global agenda of
Human and material(4) caused by such disasters are a major obstacle to sustainable development. By issuing accurate forecasts and warnings in a form that is readily understood and by(5) people on how to prepare against such hazards, before they become(6), lives and property can be protected. Emphasis is on disaster risk reduction: one dollar invested in disaster preparedness can prevent seven dollars' worth of disaster-related economic losses – a considerable return on investment.
Natural

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Some National Meteorological and Hydrological Services and specialized centers have responsibility for investigating geophysical hazards including volcanic explosions (airborne ash) and tsunamis, and hazardous airborne matter (radionuclides, biological and chemical substances) and acute urban pollution.

UNISDR: Global Assessment Report on Disaster Risk Reduction 2015.

#### **SECTION D:** SHORT ANSWER QUESTIONS (25 MARKS)

Read and understand each of the instructions given below and carefully answer the questions that follow. Write your answers on the **Answer Sheet Provided.** 

Q18.	Name three characteristics that help determine (measure) the sever	ity of a hard. (3)
<ul><li>a)</li><li>b)</li><li>c)</li></ul>		
a) b)	Name the three main classifications or categories of disasters.	(3)
a)	Disasters are classified based on two main characteristics. List tho	
b) Q21.	What is the difference between natural hazard and human-induced disast	
Q22.	What causes natural disasters?	(2)
Q23.	What is the purpose of hazard zonation mapping?	(3)
Q24.	Explain how hazard, risk and disaster are interconnected.	(4)
Q25.	Explain the process leading to secondary and multiple hazards, or disas	ter. (4)

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Q26.	What are th	e differences between Rapid Needs Assess	ment and Surveillance?	(2)
SECT	TION E:	SUMMARY ANSWERS	(20 MARKS	······································
Q27.	Disaster Ris disaster. Yo	sk Management (DRM) include; the action ou are asked to <b>critically describe</b> in a sum	s taken <b>before</b> , <b>during</b> , an mary an overall DRM plan	d <b>after</b> a n.
Note:	You are writ ur assignment	ting summary of a $\underline{PLAN}$ not explanations of the produce a wok that worth 20 marks	of different phases. Recall ks.	the comments
Disas	ster Risk Ma	nagement (DRM) Plan		

END OF EXAMINATION – ALL THE BEST! JFK22