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**Question Paper Code: 98B76**

B.E. / B.Tech. DEGREE EXAMINATION, NOV 2022

ONE CREDIT

Biomedical Engineering

19UBM876 - ROLE OF BIOMEDICAL ENGINEERS IN DISASTER MANAGEMENT

(Regulation 2019)

Duration: 1.30 hours

Maximum: 50 Marks

Answer ALL Questions

PART A - (18 x 1 = 18 Marks)

1. When the situations of hazard arise? CO1-U
  - (a) When there is the threat of natural calamity
  - (b) When there is a threat to the consequences of the disaster
  - (c) When there is a threat to property and lives from calamities
  - (d) All of the above
  
2. Which one of the following is not a Natural Disaster? CO1-U
  - (a) Volcano eruption      (b) Flood      (c) Blow-out      (d) Tsunami
  
3. Seismic waves cause disaster named as ..... CO1-U
  - (a) Nino      (b) Typhoon      (c) Tsunami      (d) hurricane
  
4. National Disaster Management authority comes under which ministry? CO1-U
  - (a) Ministry of Pollution      (b) Ministry of Environment
  - (c) Ministry of Home Affairs      (d) Ministry of Foreign Affairs
  
5. What is the correct sequence for the Primary Survey? CO2-A
  - (a) Damage, Response, Airway, Breathing      (b) Danger, Response, Airway, Breathing
  - (c) Danger, Reply, Artery, Breathing      (d) Danger, Response, Advice, Back

6. The two atom bombs in World war II has been dropped on which of the following:- CO1-U  
 (a) Hiroshima and Nagasaki in Japan (b) Germany  
 (c) Italy (d) Great Britain
7. Among which of the following Hazards and Disasters are classified? CO1- U  
 (a) Cultural and Social (b) Natural and Man-made  
 (c) Chemical and physical (d) Human and Physical
8. What year Bhopal Gas Tragedy happens, and due to which gas? CO1- U  
 (a) In 1986, Ethyl isocyanate (b) In 1984, Methyl isocyanate  
 (c) In 1984, Potassium isothiocyanate (d) In 1987, Sodium isothiocyanate
9. Novel Coronavirus was originated from which country? CO1- U  
 (a) India (b) China (c) Japan (d) Bangladesh
10. Where International Tsunami information center is located? CO1-R  
 (a) Honolulu (b) Hyderabad (c) Goa (d) Pondicherry
11. Where is the Tsunami Warning Center located in India? CO1-R  
 (a) New Delhi (b) Hyderabad (c) Gujarat (d) Kolkata
12. Find the following common factors of wildfire hazards. CO1-R  
 (a) Volcanic eruption (b) El-Nino  
 (c) Volcanic Lightning and thundering (d) All of the above
13. The only active volcano in India is ..... CO1-U  
 (a) Volcano Baratang (b) Barren Island volcano  
 (c) Volcano Etna (d) None of the above
14. How many stages are there in the process of disaster management? CO1-U  
 (a) 7 (b) 4 (c) 8 (d) 5
15. Always suspect shock if a person CO3-A  
 (a) Is mean, slurs his words, and smells of alcohol (b) Is bleeding heavily  
 (c) Stopped exercising from a leg cramp (d) Stepped on a nail

16. After someone has fainted what position should they be in to aid recovery? CO3-A
- (a) Lay flat    (b) Lay down with legs raised    (c) Sit in chair    (d) Stand upright

PART B (5X2=10 Marks)

17. Define Hazard. CO1 A
18. Give an account of medical and health response to cyclones CO2 A
19. What are the major benefits of first aid? CO1 U
20. Explain the first aid guidance for poisoning CO2 A
21. Define road safety. CO1 U

PART C (3X8=24 Marks)

22. (a) Consider any disaster or accidents happened in India. Explain about the impacts of that disaster environmentally, physically and socially CO1-U    (8)
- OR
- (b) Explain in detail the role of government in disaster management at central, state and district level.. CO1-U    (8)
23. (a) Explain in detail the cardiac arrest and cardiopulmonary resuscitation CO2-App    (8)
- OR
- (b) Explain in detail the work place emergency and preparedness CO3-App    (8)
24. (a) Explain in detail the cardiac arrest and cardiopulmonary resuscitation CO2-App    (8)
- OR
- (b) What are the causes of road accidents? Explain in detail what to do if you or someone else was in an accident? CO3-App    (8)

