

Enrollment No.....



Faculty of Engineering
End Sem Examination Dec-2023
FT3CO41 Paramedics

Programme: B.Tech.

Branch/Specialisation: FT

Duration: 3 Hrs.**Maximum Marks: 60**

Note: All questions are compulsory. Internal choices, if any, are indicated. Answers of Q.1 (MCQs) should be written in full instead of only a, b, c or d. Assume suitable data if necessary. Notations and symbols have their usual meaning.

- Q.1 i. What is the first action you should take when arriving at the scene of emergency? **1**
- (a) Begin administering first aid immediately
 - (b) Ensure your safety and check the scene for hazards
 - (c) Ask the injured person for their medical history
 - (d) Move the injured person to a more comfortable location
- ii. What is the normal adult resting heart rate (pulse) per minute? **1**
- (a) 50-60 beats per minute
 - (b) 70-80 beats per minute
 - (c) 90-100 beats per minute
 - (d) 110-120 beats per minute
- iii. What is the main function of nervous system? **1**
- (a) Regulation body temperature
 - (b) Controlling voluntary & involuntary body functions
 - (c) Digesting food
 - (d) Pumping blood to the body
- iv. The medulla oblongata is responsible for regulating which essential bodily function? **1**
- (a) Heart rate and breathing
 - (b) Vision
 - (c) Digestion
 - (d) Muscle strength
- v. In the Heimlich Maneuver, where should you position your hands to perform abdominal thrusts on a choking individual? **1**
- (a) On the person's chest
 - (b) On the person's back
 - (c) Below the ribcage, above the naval
 - (d) On the person's forehead

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- vi. A heart attack occurs when- **1**
 (a) The heart stops beating
 (b) Blood pressure is too high
 (c) There is blockage in the blood vessels supplying the heart
 (d) The body is dehydrated
- vii. In the case of an eye injury involving corrosive material, what is the best immediate action to take? **1**
 (a) Cover the eye with a patch
 (b) Flush the eye with copious amount of clean water
 (c) Attempt to remove the chemical with a cotton swab
 (d) Apply an ointment to the affected eye
- viii. What is the primary classification of wounds based on how they occur? **1**
 (a) Superficial and deep wounds
 (b) Clean and dirty wounds
 (c) Open and closed wounds
 (d) Acute and chronic wounds
- ix. A sprain is an injury that affects- **1**
 (a) Bones (b) Muscles (c) Ligaments (d) Tendons
- x. Electric burns result from- **1**
 (a) Contact with high frequency radio waves
 (b) Exposure to harmful chemicals
 (c) Direct contact with electric currents
 (d) Prolonged sun exposure
- Q.2 i. Name three vital signs commonly assessed in a first aid situation. **2**
 ii. Explain the role of first aider in a first aid situation. **3**
 iii. In case of road accident, what will be the sequence of first aid as a trained first aider? **5**
- OR iv. In case of chemical spill on a person in industry, what will be the sequence of first aid to follow? **5**
- Q.3 i. Define Hypoglycemia and hyperglycemia in the context of diabetes. **2**
 ii. Name and briefly describe the three main components of brain. **3**
 iii. Outline the general steps in the management of an unconscious casualty. **5**
- OR iv. Explain the concept of a stroke and describe a critical action that should be taken in response to a suspected stroke. **5**

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- Q.4 i. Explain the term asphyxia. **2**
 ii. Define heart attack and identify typical signs and symptoms. **3**
 iii. Explain signs, symptoms, causes and treatment of shock. **5**
 OR iv. Explain CPR technique in detail. **5**
- Q.5 i. Explain the term wound in the context of first aid. **4**
 ii. How can you control external bleeding from a wound? Describe the steps involved. **6**
 OR iii. Name three common types of bandages used in first aid and briefly describe their typical application. **6**
- Q.6 Attempt any two:
 i. Describe the “rule of nines” and its significance in assessing the extent of burns. **5**
 ii. What are the common signs and symptoms of poisoning? Describe the initial steps a first aider should take when they suspect a person has been poisoned. **5**
 iii. What safety measures should be taken when transferring a casualty onto a stretcher? **5**
