

**VINAYAKA MISSION'S RESEARCH FOUNDATIONS, SALEM  
(Deemed to be University)**

**B. Sc (TRAUMA CARE MANAGEMENT) DEGREE  
EXAMINATION – August 2019  
First Year**

**ADVANCED EMERGENCY CARE AND INSTRUMENTATION**

Time: Three hours

Maximum: 100 marks

**SECTION – A**

**ADVANCED EMERGENCY CARE**

**I. Write an essay on any ONE of the following: (1 x 15 = 15)**

1. Describe procedural steps of defibrillation? Difference between Defibrillation and Cardioversion.
2. Pathophysiology, clinical manifestations and management of Head injury?

**II. Write short notes on any Five of the following: (5 x 5 = 25)**

3. Le- fort's classification.
4. What is AED? How to operate an AED?
5. Degree and fluid resuscitation of Burns.
6. Procedure of Intravenous cannulation.
7. Combitube.
8. Stages of hypovolemic shock.
9. Flail chest.

**III. One Mark Questions: (10 x 1 = 10)**

10. Define fracture.
11. Cushing triad.
12. To relieve choking in pregnant victim., what method will be performed?
13. CHAPS expansion.
14. Head tilt.
15. Define Triage.
16. Dosage of Amiodarone.
17. Drug of choice in polymorphic Ventricular tachycardis.
18. Four common cardiac arrest rhythms.
19. Absolute contraindication of Nasopharyngeal airway.

(p.t.o)

**SECTION – B**

**INSTRUMENTATION IN EMERGENCY SERVICES**

**I . Write an essay on any ONE of the following:** (1 x 15 = 15)

1. Draw labelled diagram of ECG and explain about each wave. Eionthoven triangle. Mention cardiac arrest rhythms and also in diagram.
2. Explain in detail about Blood pressure apparatus and also its measurement methods.

**II. Write short notes on any Five of the following:** (5 x 5 = 25)

3. Types of oxygen cylinder and its colour codes for identification.
4. Syringe pumps.
5. Parameters of multipara monitor.
6. Introduction to Biomedical engineering.
7. Devices used for oxygen delivery and its indications & flow rates.
8. Types of Defibrillator.
9. Equipments placed and its uses in Ambulance.

**III. One Mark Questions:** (10 x 1 = 10)

10. The life support equipment is \_\_\_\_\_.
11. The wave represents arterial depolarization is \_\_\_\_\_.
12. Electrodes are used to convert electrical signals into \_\_\_\_\_.
13. \_\_\_\_\_ is the component which is used to projecting the X- ray in narrow bandwidth.
14. The Device used to provide temporary ventilation is \_\_\_\_\_.
15. \_\_\_\_\_ Provides Ultraviolet rays
16. The device which vaporizes the medicine is \_\_\_\_\_.
17. The anticoagulant used in hemodialysis is \_\_\_\_\_
18. RTD is temperature measuring technique stands for \_\_\_\_\_.
19. Mention unipolar chest leads.

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(Sl.No.M21686)