Rajiv Gandhi University of Health Sciences, Karnataka

II Year B.Sc. Emergency and Trauma Care Technology Degree Examination – 17-May-2023

Time: Three Hours **Max. Marks: 100 Marks**

Introduction to Emergency Medical Services

Q.P. CODE: 3364

Your answers should be specific to the questions asked.
Draw neat labeled diagrams wherever necessary

LONG ESSAYS **2 x 10 = 20 Marks**

1. What is police intimation? Describe the cases that warrant police intimation. Write a short note on its documentation.
2. Define Triage in Trauma. Describe colour coding and its importance.

SHORT ESSAYS **10 x 5 = 50 Marks**

3. Mention 10 MLCs.
4. Types of ambulances.
5. Describe the basic preparation of paediatric patient transport.
6. Uses of stomach wash on poison victims.
7. History taking in a patient at an Emergency Dept.
8. **BLS algorithm**
9. Principles of life support.
10. Confidentiality.
11. Health Insurance.
12. Spinal Immobilization.

SHORT ANSWER **10 x 3 = 30 Marks**

13. Management of Hypoglycaemia.
14. Areas of auscultation.
15. Air medical transport.
16. Code blue.
17. Assault.
18. Shockable rhythms.
19. GCS.
20. BLS algorithm.
21. Name the supportive departments in a hospital
22. Mass casualties.

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Rajiv Gandhi University of Health Sciences, Karnataka

II Year B.Sc. Emergency & Trauma Care Technology Degree Examination – 19-May-2023

Time: Three Hours **Max. Marks: 100 Marks**

EMERGENCY DEPARTMENT EQUIPMENT

Q.P. CODE: 3365

Your answers should be specific to the questions asked
Draw neat labeled diagrams wherever necessary

LONG ESSAYS **2 x 10 = 20 Marks**

1. Describe various modes of ventilator. Write the indications of ventilator
2. Write a labelled diagram of anaesthesia work station and describe its functioning

SHORT ESSAYS **10 x 5 = 50 Marks**

3. Defibrillator
4. Crash cart equipments
5. Write a short note on medical gas supply
6. Arterial blood gas analysis
7. Short note on blood and urine investigations done in emergency
8. Principles of pulse oximetry and interpretation of SPO_2
9. Describe in detail on how to perform a capillary blood glucose
10. Types of splints and describe the process of splinting a fractured hand
11. Describe LMA with a diagram and procedure of insertion
12. Explain AED pad placement in adults and children with a diagram

SHORT ANSWER **10 x 3 = 30 Marks**

13. Airway adjuncts
14. List the parameters available on a multiparameter monitor
15. Indications for C-spine immobilization
16. List three indications for doing ultrasound in emergency
17. AMBU bag
18. Types of bandaging
19. List three indications for doing an ECG
20. Define bradycardia and tachycardia
21. Name six crash cart drugs
22. List three types of oxygen cylinders and explain each

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Rajiv Gandhi University of Health Sciences, Karnataka

II Year B.Sc. Emergency and Trauma Care Technology Degree Examination – 22-May-2023

Time: Three Hours **Max. Marks: 100 Marks**

EMERGENCY DEPARTMENT PHARMACOLOGY

Q.P. CODE: 3366

Your answers should be specific to the questions asked
Draw neat labeled diagrams wherever necessary

LONG ESSAYS **2 x 10 = 20 Marks**

1. Classify opioids. Write the uses, adverse effects and contraindications for the use of morphine. What is the treatment for morphine poisoning?

2. Classify insulin preparations. Discuss the pharmacological actions and adverse effects of insulin. Add a note on drug therapy of diabetic ketoacidosis

SHORT ESSAYS **10 x 5 = 50 Marks**

3. Explain loading dose and maintenance dose with examples
4. Discuss the general principles in the management of poisoning
5. Discuss the uses and adverse effects of beta blockers
6. Write in detail about the advantages and disadvantages of intramuscular route of drug administration
7. What is anaphylactic shock? Write its management
8. Mechanism of action, uses and adverse effect of Digoxin
9. Write a note on therapeutic drug monitoring. Give examples
10. Discuss the management of a patient suffering from stable angina
11. Management of acute bronchial asthma
12. Define bioavailability. Explain factors modifying bioavailability in brief

SHORT ANSWER **10 x 3 = 30 Marks**

13. Enumerate three uses of nitrates
14. Name one cause for medication error and one strategy to prevent it
15. What is the rationale for use of tamsulosin in benign prostatic hyperplasia?
16. What is sodium bicarbonate used for? By which route?
17. Give reason- carbidopa is combined with levodopa in the treatment of Parkinsonism
18. Name two drugs used in the treatment of generalized tonic clonic seizures
19. List the drugs used to treat hypertensive crisis
20. Name two plasma expanders. Mention their uses
21. Give two examples for drug synergism
22. Name two parenteral iron preparations. Mention their indications

Rajiv Gandhi University of Health Sciences, Karnataka

II Year B.Sc. Emergency and Trauma Care Technology Degree Examination – 23-Nov-2023

Time: Three Hours **Max. Marks: 100 Marks**

Introduction to Emergency Medical Services

Q.P. CODE: 3364

Your answers should be specific to the questions asked.
Draw neat labeled diagrams wherever necessary

LONG ESSAYS **2 x 10 = 20 Marks**

1. What are the different types of ambulance services and their significance?
2. What is an emergency response team? What are their roles and responsibilities in EMS?

SHORT ESSAYS **10 x 5 = 50 Marks**

3. What is medicolegal case (MLC)? Name eight examples of MLCs.
4. What is mass casuality? How do you manage mass causalities in EMS?
5. Guidelines for the preservation of Medical –Legal Evidence.
6. BLS (basic life support) protocol
7. What is the importance of EMS documentation?
8. Write3 the structure and organization of a hospital and its departments
9. What are the steps to take in a medical emergency?
10. Advanced cardiac life support protocol.
11. FOUR different categories
12. Ideal functioning of an Emergency medicine department

SHORT ANSWER **10 x 3 = 30 Marks**

13. What is pre-hospital environment?
14. Advanced Life Support (ALS) ambulances.
15. What are the components of EMS?
16. Steps in hand hygiene
17. Why is pre-hospital care necessary?
18. Name three patient transfer equipment
19. Cardiac arrest chain of survival
20. Name three causes of cardiac arrest.
21. What is A, B and C in resuscitation?
22. What do you colors yellow and black indicate in triage?

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Rajiv Gandhi University of Health Sciences, Karnataka

II Year B.Sc. Emergency & Trauma Care Technology Degree Examination – 28-Nov-2023

Time: Three Hours **Max. Marks: 100 Marks**

EMERGENCY DEPARTMENT EQUIPMENT

Q.P. CODE: 3365

Your answers should be specific to the questions asked
Draw neat labeled diagrams wherever necessary

LONG ESSAYS **2 x 10 = 20 Marks**

1. Write a note on crash carts used in emergency department. Mention the most required equipments and drugs in crash cart.
2. Write a note on uses of point of care ultra sonography in Emergency.

SHORT ESSAYS **10 x 5 = 50 Marks**

3. ABG in emergency department.
4. Write a note on 12 lead ECGT.
5. AED (Automated External Defibrillator).
6. Diagram of Endo Tracheal Tube and label.
7. Note on patient shifting trolley in Emergency.
8. NIV (Non Invasive Ventilation) – Indication and basic settings.
9. Write a note on oxygen cylinders used in Emergency.
10. Describe different suture materials used in Emergency.
    Or
    Name different splints used in emergency department.
11. Foleys catheterization set.
12. Uses of portable X-ray in Emergency.

SHORT ANSWER **10 x 3 = 30 Marks**

13. Colour coding of oral airway.
14. Colour coding of IV Cannula.
15. Note on Glucometer used in Emergency.
16. Uses of portable Pulse Oximeter.
17. Write different types of BP apparatus.
18. Note on oxygen face mask.
19. Dressing packs.
20. Note on colour coding of medical gas pipelines in Emergency.
21. Mention any six different fluids in crash cart.
22. Note on sterile urine sample collection in Emergency.

Rajiv Gandhi University of Health Sciences, Karnataka

II Year B.Sc. Emergency and Trauma Care Technology Degree Examination – 02-Dec-2023

Time: Three Hours **Max. Marks: 100 Marks**

EMERGENCY DEPARTMENT PHARMACOLOGY
Q.P. CODE: 3366

Your answers should be specific to the questions asked
Draw neat labeled diagrams wherever necessary

LONG ESSAYS **2 x 10 = 20 Marks**

1. Describe all the pharmacological agents used in treatment of Bronchial Asthma with dosage and route of administration in emergency.
2. Write a note on all the IV fluids used in emergency.

SHORT ESSAYS **10 x 5 = 50 Marks**

3. Write different uses of calcium gluconate.
4. Write a note on drug dilution techniques.
5. Write uses of adrenaline.
6. Describe contents of normal saline.
7. Write a note on how to avoid medication errors.
8. Uses of Dopamine.
9. Note on loading dose used in acute MI.
10. Write a note on uses and route of administration of insulin.
11. Note on drugs used for acute vomiting.
12. Indications of 3% saline.

SHORT ANSWER **10 x 3 = 30 Marks**

13. Mention three drugs used per rectal.
14. Mention three drugs used for acute headache.
15. Pantoprazole–dosage and uses.
16. Three routes of administration of paracetamol.
17. Three uses of Dobutamine.
18. LOOK-ALIKE medications.
19. SOUND-ALIKE medications.
20. Note on nebulization technique.
21. Three uses of metformin.
22. Indications of Lorazepam.

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