Rajiv Gandhi University of Health Sciences, Karnataka

II Year B.Sc. Emergency & Trauma Care Technology Degree Examination – 29-May-2024

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. Define Triage and elaborate on colour coded Triage system
2. Describe in detail about the structure and organisation of emergency department

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

3. Functioning of an ambulance
4. Write a short note on Non Emergency Patient
5. Personal protective equipment (PPE)
6. Describe field triage in a disaster
7. Define informed consent. List five procedures requiring informed consent
8. Roles and responsibilities of a emergency care technician
9. **Write a note on mass casualties.**
10. History taking and physical examination in emergency
11. Describe the process of MLC registration. List five MLC
12. **What is Return of spontaneous circulation (ROSC) ?**

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

13. Colour coding in hospital waste disposal
14. **List 3 patient carrying devices**
15. Components of high quality CPR
16. Electronic medical records
17. BLS algorithm
18. Mention three drugs used in cardiac arrest
19. List out six health care workers in hospital
20. Airlifting a critical patient
21. Steps of hand hygiene
22. What is golden hour in emergency?

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Rajiv Gandhi University of Health Sciences, Karnataka

II Year B.Sc. Emergency & Trauma Care Technology Degree Examination – 04-Jun-2024

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 briefly about Defibrillator used in emergency. Make a note on types of defibrillator.**
2. Write briefly about different types of immobilization techniques and devices used in emergency.

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

3. Note on laryngo scopes used in emergency. Mention different types and sizes of the scope.
4. Note on Ambu bags used in emergency. Difference between adult and pediatric Ambu bags.
5. Note on Bains circuit. Diagram of Bains circuit and uses.
   Or
   Write a note on Non-invasive ventilation.
6. Different types of pulse oximeter. Note on different parameters.
7. Note on infusion sets used in Emergency.
   Or
   Note on point of care investigations done in Emergency department.
8. Indications of emergency ultrasound.
9. **Note on ABG. Mention its uses in emergency.**
10. AED (Automated External Defibrillator).
11. Note on different suturing material used in emergency.
    Or
    Note on Supraglottic airway devices.
12. Note on Capillary blood glucose.

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

13. Note on surgical skin stapler.
14. Note on dressing packs used in emergency.
15. Ryle's tube.
16. Diagram of Foleys Catheter.
17. Colour coding of IV cannula.
18. Short note on triaging.
19. Note on oral airways in emergency.
20. Note on Bougie used in intubation.
21. Note on Nasal prongs.
22. Note on spine boards used in emergency.

Rajiv Gandhi University of Health Sciences, Karnataka

II Year B.Sc. Emergency and Trauma Care Technology Degree Examination – 06-Jun-2024

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

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. Enumerate different routes of drug administration with an examples for each. Write a note on advantages and disadvantages of any two-emergency route of drug administration
2. Classify diuretics. Write the mechanism of action, uses, adverse effects, dose, route of administration and contraindications of frusemide (furosemide)

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

3. What are six steps for good prescribing as per WHO (World Health Organization)
4. How many micrograms of adrenaline is present in a 30 ml vial of 2% lignocaine with adrenaline (Adrenaline is available as 1:200000)
5. Compare naloxone and naltrexone
6. Explain the mechanism of action of nitrates in cyanide poisoning
7. Anti – tetanus immunization
8. Vitamin K – Sources, Dose, Route of administration and emergency use
9. Explain any five uses and five adverse effects of corticosteroids
10. Compare urokinase and streptokinase
11. Treatment of status asthamaticus – explain in flowchart wise manner mentioning the drugs used
12. Ondansetron – Mechanism of action, uses, dose, route of administration and adverse effects

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

13. Name any three look alike drugs
14. Mention any two differences between dopamine and dobutamine
15. Three contraindications for the use of adrenaline
16. Explain the role of activated charcoal in emergency treatment with a suitable example
17. Name any three vasopressors
18. Name any three cardiotonic drugs
19. Write any two uses of mannitol and route of administration
20. Name any three adverse effects of morphine
21. Three drugs used in emergency treatment of anaphylactic shock
22. Mention any three strategies to prevent medication error

Rajiv Gandhi University of Health Sciences, Karnataka

II Year B.Sc. Emergency and Trauma Care Technology Degree Examination – 21-Nov-2024

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. Explain in detail regarding colour coding and disposal methods of biomedical wastes.
2. Principles of resuscitation. Explain ACLS algorithm.

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

3. Triage colour coding and its importance.
4. Mention 10 MLCs.
5. Types of ambulances.
6. Health insurance.
7. Spinal immobilization.
8. Sudden cardiac death.
9. Police intimation.
10. Disaster management.
11. Consent.
12. Medical records.

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

13. Name the supportive departments in a hospital.
14. Mass casualties.
15. Ambulance communication system.
16. Causes of haemoptysis.
17. Types of stroke.
18. Radiation hazards.
19. Blood transfusion reaction.
20. Log-roll.
21. Areas of auscultation.
22. Air medical transport.

Rajiv Gandhi University of Health Sciences, Karnataka

II Year B.Sc. Emergency & Trauma Care Technology Degree Examination – 26-Nov-2024

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 the types of airway adjuncts and supraglottic airway devices
2. Write a labelled diagram of defibrillator. Describe its types, usage and maintenance

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

3. Multiparameter monitor – description and usage
4. Modes of mechanical ventilator
5. Write a short note on ABG sampling
6. Ultrasound in emergency
7. Write a short note on pulse oxymeter usage in emergency
8. Describe in detail on how to do an ECG
9. C-spine immobilization trauma, types of immobilizers available
10. Types of splints. Describe the process of splinting of a fractured leg
11. Wound management
12. Describe AMBU Bag with a labelled diagram. Mention indications for its usage

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

13. Automated external defibrillator
14. Name six crash cart drugs
15. List six equipment on an anaesthesia work station
16. List three indications for noninvasive ventilation
17. List three types of oxygen cylinders and explain
18. List six point of care investigations done in emergency
19. Renal function test
20. Capillary blood glucose – what is normal and how to interpret the abnormality/
21. Normal values of P^H, PCO_2, HCO_3 in an ABG
22. List six indications for x-ray in emergency

Rajiv Gandhi University of Health Sciences, Karnataka

II Year B.Sc. Emergency and Trauma Care Technology Degree Examination – 28-Nov-2024

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. Write indications, dose, dilution technique and route of administration of drug adrenaline.
2. Write indications, dose, dilution technique and route of administration of drug paracetamol.

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

3. Indications and adverse effects of Mannitol.
4. Write the name and dosage of drugs used in Rapid Sequence intubation.
5. Write a note on drugs used in Seizures.
6. Write a note on drug dilution techniques.
7. Note on contents of normal saline and ringer lactate.
8. Note on different routes of administration of drugs with example.
9. Note on medication errors.
10. Indications, uses and dosage of Adenosine.
11. Note on infusion pumps used in emergency.
12. Mention any three inotropes used in emergency with dosage.

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

13. Three uses of Furosemide.
14. Three uses of Aspirin.
15. Note on prescription writing.
16. Any three strategies to reduce medication errors.
17. Uses of sodium bicarbonate.
18. Uses of atropine.
19. Any three inotropes used in emergency.
20. Note on dilution technique of adrenaline while using IV route.
21. Any three drugs used in Diabetes.
22. Uses of 3% saline.

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