Rajiv Gandhi University of Health Sciences, Karnataka

II Year B.Sc. Emergency and Trauma Care Technology Degree Examination – 14-Jan-2022

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

Introduction to Emergency Medical Services (RS-3)

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. Describe the structure and functioning of emergency department in a multi-speciality hospital.
2. Define poly trauma. Describe in detail regarding its medico legal aspects.

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

3. Documentation in EMS.
4. DNR.
5. Pre-hospital management of a fracture patient.
6. Hospital waste management.
7. Transport of spine injury patient.
8. Glasgow coma scale.
9. Primary survey.
10. Secondary survey.
11. Triage colour coding.
12. Mention 10 MLCs.

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

13. Consent.
14. Name some communicable diseases.
15. Radiation hazards.
16. Log-roll.
17. Heimlich's manoeuvre.
18. Resuscitation.
19. AED.
20. Types of shock.
21. Vital signs and normal values.
22. Types of ambulance.

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Rajiv Gandhi University of Health Sciences, Karnataka

II Year B.Sc. Emergency and Trauma Care Technology Degree Examination – 17-Jan-2022

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

Emergency Department Equipment (RS-3)

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. Define Non Invasive Ventilation (NIV). Explain the types, indication and contraindication.
2. Management of cervical spine injury. Explain different immobilization and splinting devices.

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

3. Laryngeal mask airways.
4. Indications and contraindications of stomach wash.
5. PPE.
6. Name for IV Fluids and its components.
7. Bladder catheterization.
8. FAST.
9. Prevention of cross infection in hospitals.
10. Enumerate the steps of hand washing.
11. Crash cart.
12. Tracheostomy.

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

13. Sterilization types.
14. Endotracheal tube.
15. Oxygen delivery devices.
16. Foley's catherization.
17. CMV Mode on Ventilator.
18. Parts of laryngoscope.
19. Sequence of spine immobilization.
20. Importance of X-ray in emergency.
21. Two complications of cardioversion.
22. Two indications of Ryles tube.

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Rajiv Gandhi University of Health Sciences, Karnataka

II Year B.Sc. Emergency and Trauma Care Technology Degree Examination – 19-Jan-2022

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

Emergency Department Pharmacology (RS-3)

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. Mention various routes of drug administration. Discuss the advantages and disadvantages of intramuscular route of drug administration.
2. Describe the mechanism of action, uses and adverse effects of organic nitrates.

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

3. Transdermal drug delivery system.
4. Drug therapy of acute bronchial asthma.
5. Drug therapy of opioid poisoning.
6. Discuss the management of anaphylactic shock.
7. Mention the dosage, route of administration and indications for the use of dopamine.
8. What is therapeutic drug monitoring? Explain with examples.
9. Uses and adverse effects of systemic corticosteroids.
10. What is medication error? Describe steps to prevent it.
11. What are the advantages of adding adrenaline to lignocaine? What are the contraindications for this combination?
12. What is drug synergism? Explain with suitable examples.

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

13. What is a prodrug? Give two examples.
14. Enumerate three uses of adrenaline.
15. Name any two drugs used in the treatment of AV block.
16. Give reason: Low dose aspirin is used in the prophylaxis of myocardial infarction.
17. Enumerate two drugs used in the treatment of generalized tonic clonic seizures.
18. Enumerate the steps involved in preparation and setting up of an IV infusion.
19. Mention two indications for blood transfusion and two complications of blood transfusion.
20. Mention three cardio selective beta blockers.
21. What is zero order kinetics? Name one drug which is eliminated by zero order kinetics.
22. Enumerate uses of atropine.

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Rajiv Gandhi University of Health Sciences, Karnataka

II Year B.Sc. Emergency and Trauma Care Technology Degree Examination – 22-Jul-2022

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

EMERGENCY DEPARTMENT PHARMACOLOGY (RS-3)

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. Discuss the symptomatology and treatment of organophosphorus compound poisoning
2. Enumerate routes by which a drug can be administered. Discuss the advantages and disadvantages of intravenous route of drug administration with examples

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

3. Discuss the mechanism of action and uses of organic nitrates
4. Management of anaphylactic shock
5. What is therapeutic index? Mention its significance
6. Uses and adverse effects of alpha blockers
7. Advantages and disadvantages of intramuscular route of drug administration
8. What is medication error? Discuss steps to prevent it
9. Write the uses and adverse effects of diazepam
10. Explain the mechanism of action, uses and adverse effects of Warfarin. Add a note on treatment of its toxicity
11. Lignocaine in the treatment of arrhythmia
12. Uses and adverse effects of systemic corticosteroids

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

13. Mention three uses of atropine
14. Give reason-subcutaneous route of drug administration is not preferred in shock patients
15. Give two examples for drug antagonism
16. Give two fibrinolytic agents. Mention their uses
17. Enumerate plasma expanders. List their uses
18. Management of diabetic ketoacidosis
19. What is a prodrug? Give examples
20. Name two antiplatelet drugs. Write one use of them
21. Drug therapy of post-partum haemorrhage
22. Enumerate three bronchodilators

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Rajiv Gandhi University of Health Sciences, Karnataka

II Year B.Sc. Emergency & Trauma Care Technology Degree Examination – 23-Dec-2022

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. Describe the functioning of an ideal emergency medicine department
2. Describe the management of a mass casualty situation in emergemcy

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

3. Emergency response team
4. Principles of emergency resuscitation
5. Types of ambulance services. Define each of them
6. Describe triage in a disaster
7. Describe various documentation processes in emergency department
8. Precautions during cardiopulmonary resuscitation
9. Describe various department sin the hospital
10. What is blood pressure? Explain methods used to measure BP
11. History taking and physical examination in emergency
12. Write a short note on non emergency patient

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

13. What is verbal consent?
14. Roles and responsibilities of emergency care technician
15. Electronic medical records
16. Define a Medicolegal case. List any four MLC
17. Mention any three IV cannula sized with colour coding
18. Steps of hand hygiene
19. Drugs used in cardiac arrest
20. BLS algorithm
21. List out the paramedical staffs in hospital
22. Mention three drugs used in asthma

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Rajiv Gandhi University of Health Sciences, Karnataka

II Year B.Sc. Emergency & Trauma Care Technology Degree Examination – 26-Dec-2022

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. What are different medical gases used in a hospital setup? Elaborate different colour coding system to identify each cylinders
2. Define defibrillator, its types and uses

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

3. ECG
4. Crash cart
5. Trolleys Stretchers
6. Capillary blood glucose
7. Pulse oxymeter
8. AMBU bag
9. FAST
10. Ryles tube
11. Multiparameter monitors
12. laryngeal mask airways

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

13. IV Canula and its colour
14. Indications of stomach wash
15. Foley’s catheter
16. Colour coding of medical gases
17. BiPAP
18. Spine board
19. Importance of X-ray in emergency
20. PPE
21. Glucometer
22. Expand CT and MRI

Rajiv Gandhi University of Health Sciences, Karnataka

II Year B.Sc. Emergency and Trauma Care Technology Degree Examination – 28-Dec-2022

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 the mechanism of action, uses and adverse effects of benzodiazepines
2. Mention various routes of drug administration. With a labelled diagram, discuss the advantages and disadvantages of transdermal route of drug administration

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

3. Uses and adverse effects of systemic corticosteroids
4. Treatment of drug induced Parkinsonism with rationale
5. What are the advantages and limitations of adding adrenaline to lignocaine?
6. What is drug antagonism? Explain with suitable examples
7. Explain the uses and adverse effects of glyceryl trinitrate
8. Drug therapy of status epilepticus
9. What are the symptoms of morphine poisoning? How do you treat it?
10. Discuss the management of cardiogenic shock
11. Mention the dosage, route of administration and indications for the use of adrenaline
12. What is therapeutic index? Explain with examples

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

13. Enumerate the steps involved in preparation and setting up of an IV infusion
14. Mention two indications for blood transfusion and two complications of blood transfusion
15. Mention three cardio selective beta blockers
16. Name two drugs used in the treatment of organophosphorus compound poisoning
17. Enumerate uses of skeletal muscle relaxants
18. What is a plasma half-life of a a drug? Explain with examples
19. Enumerate uses of dopamine
20. Name any two drugs used in the treatment of ventricular arrhythmia
21. Give reason-propranolol is contraindicated in bronchial asthma patients
22. Enumerate two drugs used in the treatment of partial seizures

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Rajiv Gandhi University of Health Sciences, Karnataka