



**Sri Devaraj Urs ACADEMY OF HIGHER EDUCATION & RESEARCH**  
(A DEEMED TO BE UNIVERSITY)

**B.Sc. Allied Health Sciences Second Year (Semester-IV)**

September 2025 Examination  
B.Sc. Emergency Medicine Technology

Time: 2.30 Hrs.

[Max. Marks: 80]

**PRINCIPLES OF TRAUMA CARE WITH PARAMEDIC  
TRAINING**

**Q.P Code: KA4300**

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

**LONG ESSAY**

**2 X 10 = 20 Marks**

1. Mechanism of spinal trauma & types
2. Tension pneumothorax management

**SHORT ESSAY**

**6 X 5 = 30 Marks**

3. Primary survey steps
4. Cardiac tamponade signs & treatment
5. Flail chest mechanism
6. Cervical spine immobilization
7. Pelvic disruption management
8. Role of Oxygen Therapy.

**SHORT ANSWERS**

**10 X 3 = 30 Marks**

9. Define kinetic energy
10. Signs of abdominal trauma
11. Purpose of spinal board
12. Causes of blunt thoracic trauma
13. NG tube contraindications
14. Splints in haemorrhage
15. Types of pelvic injuries
16. FAST acronym
17. Signs of spinal instability
18. Role of cervical collar



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**TOXICOLOGY AND ENVIRONMENTAL EMERGENCIES**

**Q.P Code: KA4310**

*Your answers should be specific to the questions asked.*

*Draw neat labelled diagrams wherever necessary.*

**LONG ESSAY**

**2 X 10 = 20 Marks**

1. Explain the clinical features and treatment of tricyclic antidepressant toxicity.
2. Describe the thermoregulatory mechanisms and disorders caused by heat.

**SHORT ESSAY**

**6 X 5 = 30 Marks**

3. Discuss the emergency management of carbon monoxide poisoning.
4. Write a note on poisonous alcohols and their effects.
5. Explain the treatment of digoxin toxicity.
6. Describe the clinical features and treatment of scorpion sting.
7. What are the signs and symptoms of frostbite?
8. Explain the injuries caused during ascent in diving.

**SHORT ANSWERS**

**10 X 3 = 30 Marks**

9. Activated charcoal.
10. Mention two symptoms of opiate toxicity.
11. What is the antidote for acetaminophen overdose?
12. List two features of copper sulphate poisoning.
13. What is trench foot and how is it caused?
14. Mention two poisonous metals.
15. What is heat stroke?
16. Name two symptoms of spider bite.
17. What is the treatment for bee sting?
18. Mention two features of carbon monoxide poisoning.



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**Disaster Management and Industrial Emergency**

**Q.P Code: KA4320**

*Your answers should be specific to the questions asked.*

*Draw neat labelled diagrams wherever necessary.*

**LONG ESSAY**

**2 X 10 = 20 Marks**

1. Explain the role of Emergency Medical Services (EMS) in disaster management.
2. Describe the causes, effects, and emergency response for earthquake-related disasters.

**SHORT ESSAY**

**6 X 5 = 30 Marks**

3. Discuss the principles and categories of triage in disaster scenarios.
4. Write a note on hospital disaster planning and preparedness.
5. Explain the emergency management of radiation injuries.
6. Describe the types and effects of hazardous material emergencies.
7. What are the clinical features and emergency care for electrocution?
8. Explain the procedure and importance of crash helmet removal.

**SHORT ANSWERS**

**10 X 3 = 30 Marks**

9. Define disaster and mention two types.
10. What is the START triage system?
11. List two features of tsunami-related injuries.
12. Mention two occupational hazards in construction work.
13. What is the emergency response for a chemical spill?
14. Name two biologic weapons.
15. What is the role of wireless communication in disaster zones?
16. Mention two injuries caused by fall from height.
17. What is the difference between firestorm and wildfire?
18. List two risk factors for occupational injuries.



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**[Max. Marks: 40]**

**Pharmacology**

**Q.P Code: KA4330**

**LONG ESSAY**

**1 X 10 = 10 Marks**

1. Classify drugs for angina. Write the mechanism of action, uses and adverse effects of nitrates.

**SHORT ESSAY**

**3 X 5 = 15 Marks**

2. Neostigmine
3. Streptokinase
4. Morphine

**SHORT ANSWERS**

**5 X 3 = 15 Marks**

5. Define plasma half life of drugs. What is the importance of plasma half-life in therapeutics?
6. Name three drugs used in bronchial asthma.
7. Mention the drugs used in the treatment of organophosphorus poisoning and mention the rationale behind using them.
8. Name three drugs used in treatment of epilepsy with their adverse effect.
9. Name three oral anti diabetic drugs.

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