

# Question Paper

Exam Date & Time: 25-Jan-2023 (10:00 AM - 01:00 PM)



## MANIPAL ACADEMY OF HIGHER EDUCATION

FIRST SEMESTER M.Sc. EMERGENCY MEDICAL TECHNOLOGY DEGREE EXAMINATION - JANUARY 2023  
SUBJECT: EMT5101- APPLIED MEDICAL TECHNOLOGY SCIENCE  
(2022 SCHEME)

Marks: 100

Duration: 180 mins.

Answer all the questions.

- 1) Describe in detail about the pathophysiology, clinical features, investigation and management of Diabetic Keto Acidosis (20)
- 2) Explain the causes, types, and management of seizures (20)
- 3A) Explain types of shock. Add a detail note on anaphylactic shock (10)
- 3B) Explain the indication, contraindication, equipment needed, procedure and complications of needle cricothyroidotomy (10)
- 3C) Explain the cause, pathophysiology, clinical presentation and management of pancreatitis (10)
- 3D) Describe the principles of lifting and moving (10)
- 4A) Explain routine investigation, ECG and vital monitoring in ICU patient (5)
- 4B) Classify the classes of hypovolemic shock (5)
- 4C) Explain the indications and life-threatening changes seen in CT brain (5)
- 4D) Describe the pathophysiology, clinical features and management of meningitis (5)

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# Question Paper

Exam Date & Time: 27-Jan-2023 (10:00 AM - 01:00 PM)



## MANIPAL ACADEMY OF HIGHER EDUCATION

FIRST SEMESTER M.Sc. EMERGENCY MEDICAL TECHNOLOGY DEGREE EXAMINATION - JANUARY 2023  
SUBJECT: EMT5102- OBSTETRIC AND NEONATAL EMERGENCIES  
(2022 SCHEME)

Marks: 100

Duration: 180 mins.

Answer all the questions.

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| 1)  | Explain the pathophysiology, clinical features, investigation and management of eclampsia    | (20) |
| 2)  | Describe in detail about neonatal resuscitation program                                      | (20) |
| 3A) | Describe the causes, clinical features, and management of trauma in pregnancy                | (10) |
| 3B) | Explain the causes, clinical features and management of metabolic acidosis in newborns       | (10) |
| 3C) | Classify the stages of labour. Explain the events in each stage                              | (10) |
| 3D) | Explain the causes, clinical features, investigations and management of diarrhea in newborns | (10) |
| 4A) | Classify the types of placental abruption and management                                     | (5)  |
| 4B) | Explain the causes and management of fever in neonates                                       | (5)  |
| 4C) | Explain in detail about anatomical changes during pregnancy                                  | (5)  |
| 4D) | Explain the steps of assessing a newborn   | (5)  |

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# Question Paper

Exam Date & Time: 30-Jan-2023 (10:00 AM - 01:00 PM)



## MANIPAL ACADEMY OF HIGHER EDUCATION

FIRST SEMESTER M.Sc. EMERGENCY MEDICAL TECHNOLOGY DEGREE EXAMINATION - JANUARY 2023  
SUBJECT: EMT5103- PAEDIATRIC EMERGENCIES  
(2022 SCHEME)

Marks: 100

Duration: 180 mins.

Answer all the questions.

- 1) Explain the primary assessment and physical examination of pediatric patients (20)
- 2) Describe the pathophysiology, clinical presentation, and initial stabilization of Lower airway obstruction in pediatrics. (20)
- 3) Explain the causes, clinical presentation and initial stabilization of shock in pediatric patients (10)
- 4) Classify seizures and explain the pathophysiology, clinical features and initial stabilization of seizures in pediatrics. (10)
- 5) Describe the clinical features, initial assessment and Management of hypoglycemia in pediatric patients. (10)
- 6) Explain the pathophysiology, clinical presentation, investigation and initial stabilization of Hyperglycemia in pediatrics. (10)
- 7A) Explain the pathophysiology, clinical presentation of viral gastroenteritis in pediatric patients. (5)
- 7B) Describe the process and components of reassessment in pediatric patients. (5)
- 7C) Explain the Causes for Airway obstruction in pediatrics. (5)
- 7D) Explain the management of Burns in pediatric patients. (5)

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