Q.P. Code: 802618

Maximum: 100 Marks

Answer all questions

I. Elaborate on:

Time: Three Hours

- 1. Write the steps of administering BLS by a single health care practitioner.
- 2. Symptomatic Bradycardia management algorithm.
- 3. Airway management and maintaining ventilation.

II. Write notes on:

- 1. CPR in a patient with implanted pacemaker or defibrillator.
- 2. Automated external defibrillator.
- 3. Hazards and complications of CPR.
- 4. Describe the method of carotid artery palpation in a person found unresponsive in hospital corridor.
- 5. Treatment of foreign body airway obstruction in an adult.
- 6. Ventricular tachycardia.
- 7. Cardioversion.
- 8. Patient care following resuscitation.

III. Short answers on:

- 1. Write the name of 3 types of supra ventricular tacchycardias.
- 2. Write the site and manner of hands placement while doing CPR in an adult.
- 3. What should be the compression to Ventilation ratio while providing CPR to an adult?
- 4. What should be the compression rate while providing CPR to an adult?
- 5. What should be the depth of chest compressions while providing CPR to an adult?
- 6. After how many minutes of providing chest compression, respiratory therapist should be changed to avoid fatigue?
- 7. While providing CPR, if there is a palpable pulse, but no spontaneous breathing, what should be the rescue breathing rate?
- 8. During CPR, with external chest compression, approximately what fraction of normal cardiac output can be usually produced?
- 9. During CPR, after delivering one shock with AED for Ventricular Fibrillation, what should be the next most appropriate step in patient management?
- 10. Write the dose of Epinephrine during ACLS.

AUGUST 2017

B.Sc. RESPIRATORY THERAPY (New Syllabus 2014 - 2015)

THIRD YEAR PAPER III – LIFE SUPPORT SYSTEM

 $(3 \ge 10 = 30)$

 $(8 \times 5 = 40)$

 $(10 \times 3 = 30)$

FEBRUARY 2018

B.Sc. RESPIRATORY THERAPY (New Syllabus 2014 - 2015)

THIRD YEAR

PAPER III – LIFE SUPPORT SYSTEM

Q.P. Code: 802618

Time: Three Hours			Maximum: 100 Marks
		Answer all questions	
I.	El	aborate on:	$(3 \times 10 = 30)$
	2.	Ethical aspects of CPR. Shock assessment and management – ATLS perspective. Congestive heart failure.	
II.		rite notes on:	(8 x 5 = 40)
	1.	Compartment syndrome.	
	2.	Central cord syndrome.	
	3.	Cardioversion.	
	4.	Criteria for termination and resuscitative efforts.	
	5.	E-FAST.	
	6.	Atrial fibrillation.	
	7.	Lidocaine.	
	8.	Contraindication to thrombolysis.	
III	[. SI	nort answers on:	(10 x 3 = 30)
	1.	Damage control resuscitation.	
	2.	E-CPR.	
	3.	Wenckebach's phenomenon.	
	4.	Base of skull fracture.	
	5.	Pericardiocentesis.	
	6.	Tension pneumothorax.	

- 7. Sodium bicarbonate.
- 8. Amiodarone.
- 9. Ventricular tachycardia.
- 10. Respiratory arrest algorithm.

AUGUST 2018

B.Sc. RESPIRATORY THERAPY (New Syllabus 2014 - 2015)

THIRD YEAR

PAPER III – LIFE SUPPORT SYSTEM

Q.P. Code: 802618

Ti		ım: 100 Marks
I.	Answer all questions Elaborate on:	$(3 \times 10 = 30)$
	 Thoracic trauma – primary survey ATLS perspective. Acute coronary syndrome – pathophysiology, clinical features, diagnosis and management. 	
	3. Bradycardia and tachycardia algorithm.	
II.	Write notes on:	(8 x 5 = 40)
	1. Pericardiocentesis.	
	2. High quality CPR.	
	3. Defibrillation.	
	4. Pacing : types, indication and contraindication.	
	5. Streptokinase.	
	6. Pelvis fracture.	
	7. Withdrawal.	
	8. Cricothyrotomy.	
II	. Short answers on:	$(10 \times 3 = 30)$
	1. Cardiac tamponade.	
	2. Pericardial thump.	
	3. Dobutamine.	
	4. ICD.	
	5. BLS – cardiac arrest algorithm.	

- 6. Manual inline stabilization.
- 7. Mapleson D circuit.
- 8. Allen's test.
- 9. Verapamil.
- 10. Cushings triad.

FEBRUARY 2019

B.Sc. RESPIRATORY THERAPY (New Syllabus 2014 - 2015)

THIRD YEAR

PAPER III – LIFE SUPPORT SYSTEM

Q.P. Code: 802618

Q.P. Code: 802618			
Time: Th	Maximum: 100 Marks		
I. Elabor	Answer all questions cate on:	$(3 \times 10 = 30)$	
2. Sho	mary survey. ockable and non shockable rhythm. hophysiology and management of acute inferiopo	sterior wall MI.	
II. Write r	notes on:	$(8 \times 5 = 40)$	
 Inva C-sj Puli Mon Tria Bec 	d therapeutic hypothermia. asive CPR. pine injury. monary artery catheter. nro kellie hypothesis.	(10 x 3 = 30)	
 Aut Neu Ope 			

- 8. Percussion pacing.
- 9. Hagen poiseuille's law.
- 10. Right ventricular failure.

AUGUST 2019

B.Sc. RESPIRATORY THERAPY (New Syllabus 2014 - 2015)

THIRD YEAR

PAPER III – LIFE SUPPORT SYSTEM

Q.P. Code: 802618

Time: Three Hours

Answer all questions

I. Elaborate on:

- 1. Write in detail about CPR, science of CPR, complications of CPR and elaborate on alternative CPR techniques.
- 2. Management of VT with pulse and without pulse-explain in detail with algorithm.
- 3. Write in detail about Defibrillators, types of Defibrillators and give a detailed note on cardioversion.

II. Write notes on:

- 1. Reversible causes following cardiac arrest.
- 2. Pulseless electrical activity and its causes.
- 3. Reperfusion therapy.
- 4. Tension pneumothorax-Clinical picture and management.
- 5. Targeted Temperature Management.
- 6. Primary survey in ATLS.
- 7. Steps employed for apnea testing for evaluation of brainstem functionality.
- 8. Rapid Response Team.

III. Short answers on:

- 1. Amiodarone.
- 2. ETCO2 uses and recommendations in Cardiac arrest.
- 3. Compression ventilation ratio in infant single rescuer and double rescuer.
- 4. MILS.
- 5. MEWS score.
- 6. AMPLE.
- 7. Adenosine.
- 8. DNR.
- 9. Ventilatory goals of Traumatic Brain Injury patients.
- 10. Cushing's Triad.

 $(3 \times 10 = 30)$

Maximum: 100 Marks

 $(8 \times 5 = 40)$

 $(10 \times 3 = 30)$

FEBRUARY 2020

B.Sc. RESPIRATORY THERAPY (New Syllabus 2014 - 2015)

THIRD YEAR

PAPER III – LIFE SUPPORT SYSTEM

Q.P. Code: 802618

Time: Three Hours

Answer all questions

 $(3 \times 10 = 30)$

 $(8 \times 5 = 40)$

 $(10 \times 3 = 30)$

Maximum: 100 Marks

I. Elaborate on:

- 1. Write in detail about ATLS and briefly about c-spine injury and its management?
- 2. Define shock, classify and enumerate the causes. Write a detailed note on cardiogenic shock.
- 3. Note on role of respiratory therapist in in-hospital cardiac arrest and how will you monitor the quality of CPR? Write briefly on transport of cardiac arrest patient.

II. Write notes on:

- 1. Acute coronary syndrome.
- 2. ETCO2 and its role in CPR.
- 3. Write a detailed note on pacemaker and various pacing modules.
- 4. Write a short note on combitube.
- 5. How to confirm the effectiveness of cardiac compression and artificial respiration?
- 6. What are the shockable rhythms and how will you administer a shock?
- 7. SELLICK'S maneuver, BURP.
- 8. CPR in pregnancy.

III. Short answers on:

- 1. Why did they change ABC to CAB in cardiac resuscitation?
- 2. Thrombolytic agents.
- 3. Pericardiocentesis indications.
- 4. Cricothyroidotomy.
- 5. I gel.
- 6. PEA.
- 7. Complications of CPR.
- 8. Define STEMI and its criteria.
- 9. Amiodarone.
- 10. DNR (Do not resuscite) / DNI (Do not intubate).

[LR 1220]

DECEMBER 2020 (AUGUST 2020 EXAM SESSION)

Sub. Code: 2618

BACHELOR IN RESPIRATORY THERAPY THIRD YEAR – (Regulation from 2014-2015) PAPER III – LIFE SUPPORT SYSTEM Q.P. Code: 802618

Time: Three Hours		Answer ALL Questions	Maximum: 100 Marks
I. E	laborate on:		$(3 \times 10 = 30)$
1	. List various tachyarrhyth management?	nmias and elaborate on ventricula	r tachycardia and its
2	. BLS and steps for cardio	pulmonary resuscitation in variou	is age groups?
3	. Assessment of trauma pa	atients, and management of respir	atory failure?
II. W	Vrite notes on:		$(8 \ge 5 = 40)$
	1	er special circumstances.(eg., nea adult cardiopulmonary resuscitati	e ,
3			
4	e	of foreign body removal.	
	. Pharyngeal airways.		
	. Heimlich Maneuver.		
	. ACLS.	X/	
8. Goals of advanced airway.			
III. Short answers on:			(10 x 3 = 30)
1.	Indications and contrained	dications of Atropine in ACLS.	
2.	Patients care after resusc	itation.	
3.	Tension pneumothorax.		

- 4. Cardiac arrest.
- 5. Basic respiratory care in bedridden trauma patients.
- 6. Flail chest.
- 7. Defibrillators and its types.
- 8. Dopamine.
- 9. Bradyarrhythmias.
- 10. Cardioversion.

[AHS 0122]

JANUARY 2022 Sub. Code: 2618 (FEBRUARY 2021 & AUGUST 2021 EXAM SESSION)

B.Sc. RESPIRATORY THERAPY THIRD YEAR (Regulation from 2014-2015) PAPER III – LIFE SUPPORT SYSTEM Q.P. Code: 802618

Time: Three Hours		Answer ALL Questions	Maximum: 100 Marks
I.	Elaborate on:		$(3 \times 10 = 30)$
	 Algorithm for pulseless e Bag & mask devices & its Congestive heart failure. 	•	
II.	Write notes on:		$(8 \times 5 = 40)$
	 Mouth – Stoma ventilatio Hazards & Complications E-FAST. Type I hypoxemic respira Advantages & Disadvanta Ventilation perfusion miss Causes of sudden respirat 3 types of electrical therap 	s of CPR. tory failure. ages of SIMV. match.	
III	. Short answers on:	(10 x 3 = 30)	
	 Adenosine. Contra indications for CP Amiodarone. 	ons for chest compression.	

- 8. Ventricular Tachycardia.
- 9. Dobutamine.
- 10. Mapleson 'D' circuit.

[AHS 0922]

SEPTEMBER 2022 Sub. Code: 2618 (FEBRUARY 2022 & AUGUST 2022 EXAM SESSIONS)

B.Sc. RESPIRATORY THERAPY THIRD YEAR (Regulation from 2014-2015) PAPER III – LIFE SUPPORT SYSTEM Q.P. Code: 802618

Time: Three Hours	Answer ALL Questions	Maximum: 100 Marks	
I. Elaborate on:		$(3 \times 10 = 30)$	

- 1. ACLS Algorithm to approach Narrow complex QRS tachycardia.
- 2. Complications of Mechanical Ventilation.
- 3. Write in details about Defibrillators, types of defibrillators and note on cardioversion.

 $(8 \times 5 = 40)$

 $(10 \times 3 = 30)$

II. Write notes on:

- 1. Steps of BLS by single health practitioner.
- 2. Wrap around technique.
- 3. Chest compression procedure for Near Drowning and Electrical shock.
- 4. Airway opening maneuvers for children and adult.
- 5. Mouth nose ventilation.
- 6. How do you evaluate effectiveness of CPR?
- 7. Drugs for ACLS.
- 8. Chronic respiratory failure.

III. Short answers on:

- 1. CPAP.
- 2. Three clinical objectives of Ventilator support.
- 3. Equipments for NIV.
- 4. Back blow and chest thrust.
- 5. DNR.
- 6. Three causes for acute non invasive ventilation.
- 7. Indications for ECMO.
- 8. Cushing's triad.
- 9. Adrenaline.
- 10. Cardiac tamponade.

[AHS 0423]

APRIL 2023

Sub. Code: 2618

 $(8 \times 5 = 40)$

 $(10 \times 3 = 30)$

B.Sc. RESPIRATORY THERAPY THIRD YEAR (Regulations 2014-2015 & 2018-2019 onwards) PAPER III – LIFE SUPPORT SYSTEM *Q.P. Code: 802618*

Time: Three Hours	Answer ALL Questions	Maximum: 100 Marks
I. Elaborate on:		$(3 \times 10 = 30)$
1. Describe Cardiac Arr	est and Management of Pulseless Ar	rest.

- 2. Describe steps to manage an Obstructed Airway and the Airway Adjuncts used in the management.
- 3. Describe steps and management of Adult Basic Life Support (Adult BLS).

II. Write notes on:

- 1. Steps and management of Infant Basic Life Support (BLS in an infant).
- 2. What is Defibrillation? Describe the types of Defibrillators.
- 3. AED and steps to operate an AED.
- 4. What is Respiratory Arrest and describe the management of Respiratory Arrest.
- 5. Laryngeal Mask Airway (LMA).
- 6. Mild Therapeutic Hypothermia.
- 7. Invasive CPR.
- 8. C-spine injury.

III. Short answers on:

- 1. Tension pneumothorax.
- 2. Diagnostic Peritoneal Lavage.
- 3. Cardioversion.
- 4. Atropine.
- 5. Adenosine.
- 6. Ventricular fibrillation.
- 7. Neurogenic shock.
- 8. Focused Abdominal Sonography in Trauma (FAST).
- 9. Rapid Response Team (RRT).
- 10. Choking.

[AHS 1123]

NOVEMBER 2023

Sub. Code: 2618

B.Sc. RESPIRATORY THERAPY THIRD YEAR (Regulations 2014-2015 & 2018-2019 onwards) PAPER III – LIFE SUPPORT SYSTEM *Q.P. Code: 802618*

r	Fime: Three Hours	Answer ALL Questions	Maximum: 100 Marks
I.	Elaborate on:		$(3 \times 10 = 30)$
	•••	ess Electrical Activity. Irome - pathophysiology, clinica and maintain Ventilation.	al features and management.
II. Write notes on: (8 x 5 = 40			
	4. Ventilator Associated	piratory distress. dvantages of pressure controlled Pneumonia. cal therapy used in emergency of tra indications.	
II	I. Short answers on:		$(10 \ge 3 = 30)$
	 Intermittent mandator Digoxin 	ry ventilation.	

- 2. Digoxin.
- 3. Right ventricular failure.
- 4. ICD.
- 5. Streptokinase.
- 6. Sellick's maneuver.
- 7. Glasgow coma scale.
- 8. Base of skull fracture.
- 9. Flail chest.
- 10. Atrial fibrillation.