

APRIL - 2001

[KD 978]

Sub. Code : 5719

BACHELOR OF OCCUPATIONAL THERAPY
DEGREE EXAMINATION.

(Modified Regulations)

Seventh Semester

CLINICAL CARDIO-RESPIRATORY AND WORK
PHYSIOLOGY

Time : Three hours

Maximum : 100 marks

1. Write an essay on any ONE of the following : (20)
 - (a) Mechanism for maintenance of blood pressure.
 - (b) Management of a patient with chronic obstructive Airway disease.
2. Write short notes on any SIX . (6 × 5 = 30)
 - (a) Kyphoscoliosis.
 - (b) ECG.
 - (c) Flail chest.
 - (d) Pump handle movement.
 - (e) Peripheral Resistance.
 - (f) Medullary Respiratory centre.
 - (g) Pigeon chest.
 - (h) Coronary Artery Disease.

3. Write an essay on any ONE of the following: (20)
 - (a) Enumerate the causes of Empyema and its treatment.
 - (b) Describe the principles of cardio-pulmonary resuscitation.
4. Write short notes on any SIX : (6 × 5 = 30)
 - (a) Pneumothorax.
 - (b) Pulmonary Function Tests.
 - (c) Patent ductus arteriosus.
 - (d) Fracture ribs.
 - (e) Carcinoma lung.
 - (f) Pursed-lip breathing.
 - (g) Open heart surgery.
 - (h) Stove-in chest.

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[KE 978]

Sub. Code : 5719

**BACHELOR OF OCCUPATIONAL THERAPY
DEGREE EXAMINATION.**

Seventh Semester

(Modified Regulations)

**CLINICAL CARDIO-RESPIRATORY AND WORK
PHYSIOLOGY**

Time : Three hours

Maximum : 100 marks

1. Write an essay on any ONE of the following : (20)

(a) Describe the clinical features, complications, investigation and treatment of Rheumatic Mitral Stenosis.

(b) Discuss in detail about Pulmonary Function Test.

2. Write short notes on any SIX : (6 × 5 = 30)

(a) Pigeon chest

(b) Cough reflex

(c) pulse oxymetry

(d) Tetralogy of fallot

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(e) Median sternotomy

(f) Broncho-pleural fistula

(g) Tietze's syndrome.

(f) Massive haemoptysis

(g) Primary complex

(h) Postero Lateral thorocotomy

3. Write an essay on any ONE of the following : (20)

(a) Describe the relationship between Heart rate, stroke volume cardiac output, aerobic capacity and the anginal threshold. Discuss about systemic effects of exercise.

(b) Discuss in detail about cardio-pulmonary resuscitation.

4. Write short notes on any SIX (6 × 5 = 30)

(a) Echo cardiogram

(b) Positive End Expiratory Pressure (PEEP)

(c) Atelectasis

(d) Pneumo thorax

(e) Broncho-pulmonary segments

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Sub. Code : 5903

BACHELOR OF OCCUPATIONAL THERAPY
DEGREE EXAMINATION.

(New/Modified Regulations)

Seventh Semester

CLINICAL CARDIO-RESPIRATORY AND WORK
PHYSIOLOGY

Time : Three hours

Maximum : 100 marks

1. Write an essay on any ONE : (20)
(a) Describe the Pulmonary function tests and their use.

Or

(b) Describe briefly the coronary circulation and add a note on myocardial infarction.

2. Write short notes on any SIX : (6 × 5 = 30)
(a) Arterio Venous malformation.
(b) Respiratory centres.
(c) Ventilation perfusion ratio.
(d) Peripheral resistance.
(e) Rickets.
(f) Scoliosis.
(g) Cardiac Massage.
(h) Post Extubation care.

3. Write an essay on any ONE : (20)
(a) Enumerate the causes of Emphysema and its treatment.

Or

(b) Describe the Oxygen consumption of body at rest, during exercise and after exercises.

4. Write short note on any SIX : (6 × 5 = 30)
(a) Accessory muscles of respiration.
(b) Tension Pneumothorax.
(c) Co-arctation of aorta.
(d) Defibrillators.
(e) Kyphosis.
(f) P-R interval.
(g) Starling Law of Heart.
(h) Surfactant.

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Sub. Code : 5719

**BACHELOR OF OCCUPATIONAL THERAPY
DEGREE EXAMINATION.**

(Modified Regulations)

Seventh Semester

**Paper I — CLINICAL CARDIO-RESPIRATORY AND
WORK PHYSIOLOGY**

Time : Three hours

Maximum : 100 marks

Answer Sections A and B in the same Answer Book.

SECTION A

- 1. Write essay (any one) : (20)**
 - (a) Describe the relationship between bony thorax and lungs to each other and discuss the variation of bony cage in kyphoscoliosis.**
 - (b) Describe in detail the mechanical factors involved in breathing and stress cough reflex**
- 2. Write short notes (any SIX) : (6 × 5 = 30)**
 - (a) Electrical activity of myocardium**
 - (b) Cardiovascular stress**
 - (c) Aortic stenosis**
 - (d) Ventricular septal defect**

- (e) Fracture rib**
- (f) Intercostal drainage**
- (g) Aspergillosis**
- (h) Funnel chest.**

SECTION B

- 3. Write essay (any one) : (20)**
 - (a) Explain briefly the clinical features and management of carcinoma lung**
 - (b) Discuss in detail about empyema and its treatment.**
- 4. Write short notes (any SIX) : (6 × 5 = 30)**
 - (a) Artificial respiration**
 - (b) Branchopneumonia**
 - (c) Tuberculoma**
 - (d) Thoracotomy**
 - (e) Window operation**
 - (f) Cardiac massage**
 - (g) Cervical rib**
 - (h) Kyphosis.**

MARCH - 2002

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Sub. Code : 5903

**BACHELOR OF OCCUPATIONAL THERAPY
DEGREE EXAMINATION.**

(New Modified Regulations)

Seventh Semester

**Paper I — CLINICAL CARDIO-RESPIRATORY AND
WORK PHYSIOLOGY**

Time : Three hours Maximum : 100 marks

Answer Sections A and B in separate answer books.

SECTION A

1. Write an essay in any ONE of the following : (20)

(a) Describe the respiratory and cardiovascular changes during severe exercises.

Or

(b) Define blood pressure and list various factors controlling blood pressure. Briefly describe the neural regulation of blood pressure.

2. Write short notes on any SIX : (6 × 5 = 30)

(a) Pigeon chest

(b) Atelectasis

(c) Fallot's tetralogy

(d) Basal Metabolic rate

(e) Tracheostomy

(f) Vital capacity

(g) Cough reflex

(h) Coronary artery bypass surgery.

SECTION B

3. Write an essay on any ONE : (20)

(a) Describe the indications and principles of cardiopulmonary resuscitations.

Or

(b) Describe the Clinical features and management of pneumothorax.

4. Write short notes on any SIX : (6 × 5 = 30)

(a) Mitral stenosis

(b) Compliance of the lung

(c) Arterial pulse

(d) Ventilator

(e) Treadmill

(f) Central chemoreceptor

(g) Muscles of respiration

(h) Thorocotomy.

SEPTEMBER - 2002

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Sub. Code : 5719

BACHELOR OF OCCUPATIONAL THERAPY
DEGREE EXAMINATION.

(Modified Regulations)

Seventh Semester

Paper I — CLINICAL CARDIO-RESPIRATORY AND
WORK PHYSIOLOGY

Time : Three hours

Maximum : 100 marks

Answer Sections A and B in the SAME Answer Book.

SECTION A

1. Write essay (any ONE) : (20)
 - (a) Outline briefly the principles of various ventilators and their use.
 - (b) List the factors affecting diffusion of oxygen and carbondioxide in lungs. Explain ventilation perfusion and their interrelation.
2. Write short notes (any SIX) : (6 × 5 = 30)
 - (a) Cervical rib
 - (b) Kyphosis
 - (c) Normal ECG
 - (d) Muscles of respiration

- (e) Mitral stenosis
- (f) Atrial septal defect
- (g) Lobectomy
- (h) Tracheal suction.

SECTION B

3. Write essay (any ONE) : (20)
 - (a) Describe pulmonary tuberculosis and conditions related to it.
 - (b) Describe the mechanism for maintenance of blood pressure.
4. Write short notes (any SIX) : (6 × 5 = 30)
 - (a) Emphyema
 - (b) Bronchiactasis
 - (c) Flail chest
 - (d) Mitral regurgitation
 - (e) Patent ductus arteriosus
 - (f) Scoliosis
 - (g) Pump handle movement
 - (h) Pigeon chest.

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BACHELOR OF OCCUPATIONAL THERAPY
DEGREE EXAMINATION.

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Seventh Semester

Paper I — CLINICAL CARDIO-RESPIRATORY AND
WORK PHYSIOLOGY

Time : Three hours

Maximum : 100 marks

Answer Sections A and B in **SEPARATE** answer books.

SECTION A

1. Answer any ONE question : (20)
 - (a) Write acquired heart diseases and write about etiology clinical manifestations and management.
 - (b) Discuss bronchogenic carcinoma. Describe signs and symptoms investigation and management.
2. Write short notes on any SIX : (6 × 5 = 30)
 - (a) Suction apparatus
 - (b) Haemoptysis
 - (c) Pulmonary Function Tests

- (d) Cardiac massage
- (e) Tetralogy of fallots
- (f) ECG
- (g) Cor pulmonale.

SECTION B

3. Write an essay on any ONE : (20)
 - (a) Write in detail about types of exercises. What is the effect of exercise on the body.
 - (b) What is Blood Pressure? Give in detail the physiological basis for maintenance of BP.
4. Write short note on any SIX : (6 × 5 = 30)
 - (a) Energy conservation techniques
 - (b) Cardiac output
 - (c) Postural hypotension
 - (d) Cardiac circulation
 - (e) Myocardial infarction
 - (f) Pursed-lip breathing
 - (g) Pulmonary hypertension.

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(Modified Regulations)

Seventh Semester

**Paper I — CLINICAL CARDIO-RESPIRATORY AND
WORK PHYSIOLOGY**

Time : Three hours

Maximum : 100 marks

Answer Sections A and B in the **SEPARATE**
Answer Book.

SECTION A

Write an essay in any ONE of the following. (20)

1. (a) Describe the indications and principles of cardiopulmonary resuscitations.

Or

(b) Describe the anatomy of Heart and its blood supply. Outline the electrical activity of the myocardium and normal ECG.

2. Write short notes on any SIX : (6 × 5 = 30)

- (a) pneumothorax
- (b) coarctation of aorta
- (c) Cough reflex
- (d) Rickets rosary
- (e) Tracheostomy
- (f) Hypercapnia
- (g) Lung tumours
- (h) Stove in chest.

SECTION B

3. Write an essay in any ONE : (20)

(a) Describe in detail the anatomy of the lungs, bronchi and bronchopulmonary segments. Explain ventilation, perfusion and their interrelationship.

Or

(b) Define blood pressure and list various factors controlling blood pressure. Briefly describe the neural regulation of blood pressure.

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4. Write short notes on any SIX : (6 × 5 = 30)
- (a) Atrial fibrillation
 - (b) Blood gas analysis
 - (c) Kyphosis
 - (d) Floppy mitral valve
 - (e) Postural drainage
 - (f) Pulmonary Tuberculosis
 - (g) Lobectomy
 - (h) Pericarditis.
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**BACHELOR OF OCCUPATIONAL THERAPY
DEGREE EXAMINATION.**

(New Modified Regulations)

Seventh Semester

**Paper I — CLINICAL CARDIO RESPIRATORY AND
WORK PHYSIOLOGY**

Time : Three hours

Maximum : 100 marks

Answer Sections A and B in SEPARATE answer books.

SECTION A

1. Write an essay in any ONE of the following : (20)

(a) Classify congenital heart diseases, describe clinical features, management, prognosis of Tetralogy of Fallot.

Or

(b) Describe Myocardial ischemia and infarction. Outline the management of a patient after a myocardial infarction.

2. Write short notes on any SIX : (6 × 5 = 30)

(a) Cervical rib clinical features and management.

(b) Mitral stenosis.

(c) Tracheostomy and its post operative management.

(d) Cardio pulmonary resuscitation.

(e) Left coronary artery.

(f) Coronary bypass surgery.

(g) Blood pressure changes in exercises.

SECTION B

3. Write an essay in any ONE : (20)

(a) Describe pulmonary function tests and its clinical uses. Briefly outline the basis and value of blood gas analysis.

Or

(b) What are all suppurative lung disease. Describe aetiology clinical features management of various Broncho pneumonias.

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4. Write short notes on any SIX : (6 × 5 = 30)
- (a) Haemopneumo thorax.
 - (b) Aspergillosis.
 - (c) Lung compliance.
 - (d) Bronchiectasis.
 - (e) Muscles of respiration.
 - (f) Scoliosis and its lung disease.
 - (g) Intercostal drainage.
 - (h) Ventilators.
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