

BACHELOR OF PHYSIOTHERAPY
Third Year : SUMMER : 2025
SUBJECT: SURGERY

Day : Tuesday
Date : 10/06/2025

S-25056-2025

Time : 10:00 AM-12:00 PM
Max. Marks : 40

N.B.:

- 1) All questions are **COMPULSORY**.
- 2) Figures to the right indicate **FULL** marks.
- 3) Draw neat and labelled diagrams **WHEREVER** necessary.
- 4) Answers to both the sections should be written in **SEPARATE** answer books.

SECTION - A

- Q.1** Short Answer questions (Attempt **ANY FOUR**) (4 x 5 = 20)
- a) Write a note on clinical features and management of tension Pneumothorax.
 - b) List the indications of Thoracotomy.
 - c) Write a note on Lucid Interval.
 - d) Write in brief the initial assessment of Trauma patient having head injury.
 - e) Give the complications of Cardiac surgery.

SECTION - B

- Q.2** Short Answer questions (Attempt **ANY FOUR**) (4 x 5 = 20)
- a) Define lymphedema and outline in brief its management.
 - b) Write a note on Phantom Limb.
 - c) Enumerate the complications in burns patients.
 - d) Hyponatremia.
 - e) Define Shock. Explain in brief the types of shock.

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SUPPLEMENTARY
BACHELOR OF PHYSIOTHERAPY
Third Year : SUMMER : 2025
SUBJECT: SURGERY

Day : Thursday
Date : 28/08/2025

S-25056-2025

Time : 10:00 AM-12:00 PM
Max. Marks : 40

N.B.:

- 1) All questions are **COMPULSORY**.
- 2) Figures to the right indicate **FULL** marks.
- 3) Draw neat and labelled diagrams **WHEREVER** necessary.
- 4) Answers to both the sections should be written in **SEPARATE** answer books.

SECTION - A

- Q.1** Short Answer questions (Attempt **ANY FOUR**) (4 x 5 = 20)
- a) Write in brief the clinical features and management of Pneumothorax.
 - b) Give indications of CABG.
 - c) Write in brief about indications for Thoracotomy.
 - d) Describe in brief principles of below knee amputation.
 - e) Write a note on Aortic Regurgitation.

SECTION - B

- Q.2** Short Answer questions (Attempt **ANY FOUR**) (4 x 5 = 20)
- a) List the indications of Blood Transfusion.
 - b) Describe the factors affecting wound healing.
 - c) Hyponatremia
 - d) Features of chronic limb ischemia.
 - e) Write a note on rule of Nine.

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BACHELOR OF PHYSIOTHERAPY
Third Year : SUMMER : 2025
SUBJECT: ORTHOPAEDICS

Day : Wednesday
Date : 11/06/2025

S-25057-2025

Time : 10:00 AM-12:00 PM
Max. Marks : 40

N.B.

- 1) All questions are **COMPULSORY**.
- 2) Figures to the **RIGHT** indicate **FULL** marks.
- 3) Answer to both the sections should be written in **SEPARATE** answer book.
- 4) Draw neat diagrams wherever necessary.

SECTION – A

Q.1 Short answer questions (Any **FOUR** out of **FIVE**) :

(4x5=20)

- a) Define fracture and discuss the fracture healing stages.
- b) What are the injuries around the elbow joint write complications of supra condylar fractures of humerus?
- c) Describe the Anatomy of Carpal tunnel of Hand and discuss the clinical presentation and diagnosis.
- d) What is Rickets and enumerate the clinical features of Rickets and its treatment?
- e) What is AVN of hip and write various etiological factors for AVN hip.

SECTION – B

Q.2 Short answer questions (Any **FOUR** out of **FIVE**) :

(4x5=20)

- a) Write classification of tumors and principles of management.
- b) What is Neuropathic joint and the etiologic factors of Neuropathic joints?
- c) Define fracture and enumerate Immediate, early and late complications of fractures.
- d) Write causes of Genu valgum in Child and write clinical features of Genu Valgum and diagnosis.
- e) Write Springel's shoulder and its management.

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SUPPLEMENTARY
BACHELOR OF PHYSIOTHERAPY
Third Year : SUMMER : 2025
SUBJECT: ORTHOPAEDICS

Day : Friday
Date : 29/08/2025

S-25057-2025

Time : 10:00 AM-12:00 PM
Max. Marks : 40

N.B.

- 1) All questions are **COMPULSORY**.
- 2) Figures to the **RIGHT** indicate **FULL** marks.
- 3) Draw neat diagram **WHEREVER** necessary.
- 4) Both the sections should be written in **SEPARATE** answerbook.

SECTION - A

- Q.1 Short Essay questions (Attempt **ANY FOUR**) : (20)
- a) Define a fracture. Classify fracture based on displacement.
 - b) Explain the four stages of fracture healing.
 - c) Define compound (open) fracture. Write classification of compound fractures.
 - d) Describe the first aid management for a suspected shoulder dislocation.
 - e) Differentiate between genu valgum (knock knees) and genu varum (bow legs)

SECTION - B

- Q.2 Short Essay questions (Attempt **ANY FOUR**) : (20)
- a) Briefly describe the pathophysiology of gouty arthritis.
 - b) Describe the signs and symptoms of carpal tunnel syndrome.
 - c) Differentiate between benign and malignant musculoskeletal tumors based on their growth pattern.
 - d) Briefly explain the potential long-term complications of polio.
 - e) Discuss the physiotherapy considerations for a child with spinal muscular atrophy (SMA).

BACHELOR OF PHYSIOTHERAPY
Third Year : SUMMER : 2025
SUBJECT: PAEDIATRICS

Day : Monday
Date : 16/06/2025

S-25060-2025

Time : 10:00 AM-12:00 PM
Max. Marks : 40

N.B:

- 1) All questions are **COMPULSORY**.
- 2) Figures to the right indicate **FULL** marks.
- 3) Answer to both the sections should be written in **SEPARATE** answer book.
- 4) Draw neat and labeled diagram **WHEREVER** necessary.

SECTION - A

Q.1 Short Answer Questions: (Any **FOUR** out of **FIVE**) : [20]

- a) A baby is called full term at what gestational age. Write about care of newborn in delivery room.
- b) Describe neural tube defects in detail.
- c) What do you mean by development? Write in brief principles of development.
- d) Describe in brief prevention and management of contractures in a child with cerebral palsy.
- e) A 5 year child comes with history of diplopia, left eye ptosis and hampered left eyeball movement. Which is the likely cranial nerve involved? Write names of any 4 cranial nerves. What will be the symptoms in child if hypoglossal nerve is injured?

SECTION - B

Q.2 Short Answer Questions: (Any **FOUR** out of **FIVE**) : [20]

- a) Write a short note on management of abnormal or challenging behaviors in children.
- b) Differentiate between upper motor neuron lesion and lower motor neuron lesion.
- c) Write in brief about role of physiotherapy in a child with club foot.
- d) A 7 years child comes with high grade fever, pain and swelling of left thigh. On investigations the child is diagnosed to have osteomyelitis. What are the common causative organisms? List the investigations and basic principles of management of this condition.
- e) Classify myelopathy. Distinguish between extramedullary and intramedullary lesions.

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SUPPLEMENTARY
BACHELOR OF PHYSIOTHERAPY
Third Year : SUMMER : 2025
SUBJECT: PAEDIATRICS

Day : Wednesday
Date : 03/09/2025

S-25060-2025

Time : 10:00 AM-12:00 PM
Max. Marks : 40

N.B:

- 1) All questions are **COMPULSORY**.
- 2) Figures to the right indicate **FULL** marks.
- 3) Answer to both the sections should be written in **SEPARATE** answer book.
- 4) Draw neat and labeled diagram **WHEREVER** necessary.

SECTION - A

- Q.1** Short Answer Questions: (Any **FOUR** out of **FIVE**) : [20]
- a) Define developmental delay. Write a note on external features of a patient with Down's syndrome.
 - b) Classify epilepsy. How will you manage a patient having a seizure in a public place?
 - c) Name any two congenital heart diseases. Write a short note or major criteria for diagnosis of Acute Rheumatic fever as per Modified Jones Criteria.
 - d) Write a short note on nystagmus in children.
 - e) Define neonatal period. Write in brief about physiological hyperbilirubinemia in babies.

SECTION - B

- Q.2** Short Answer Questions: (Any **FOUR** out of **FIVE**) : [20]
- a) Define Cerebral Palsy. Write a note on its medical management.
 - b) Write in brief about clinical features, management and prevention of acute streptococcal pneumonia.
 - c) What is the inheritance of Duchenne Muscular Dystrophy? What is Gower's sign? Briefly describe the signs and symptoms of this condition.
 - d) Write a short note on chest physiotherapy.
 - e) You are travelling on a highway. You get to witness a road traffic accident. A 8 years child is injured, you suspect fracture of humerus. What are the first aid measures which you should give?

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BACHELOR OF PHYSIOTHERAPY
Third Year : SUMMER : 2025
SUBJECT: MEDICINE

Day : Friday
Date : 13/06/2025

S-25058-2025

Time : 10:00 AM-12:00 PM
Max. Marks : 40

N.B.:

- 1) All questions are **COMPULSORY**.
- 2) Figures to the right indicate **FULL** marks.
- 3) Draw neat and labelled diagrams **WHEREVER** necessary.
- 4) Answers to both the sections should be written in **SEPARATE** answer books.

SECTION - A

- Q.1** Short Answer questions (Attempt **ANY FOUR**) (4 x 5 = 20)
- a) Discuss the physiological changes due to aging.
 - b) Clinical features and management of Rickets.
 - c) Clinical features and treatment of Hypothyroidism.
 - d) What are the clinical features of Rheumatoid Arthritis? What are the drugs used in the treatment of Rheumatoid Arthritis?
 - e) Describe the pathophysiology, clinical features and management of Gout.

SECTION - B

- Q.2** Short Answer questions (Attempt **ANY FOUR**) (4 x 5 = 20)
- a) Describe the risk factors for Ischemic heart disease.
 - b) Causes of secondary hypertension.
 - c) Etiology, clinical features and management of hydropneumothorax.
 - d) Clinical features and management of cystic fibrosis.
 - e) Etiology, clinical features and management of hemoptysis.

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**SUPPLEMENTARY
BACHELOR OF PHYSIOTHERAPY
Third Year : SUMMER : 2025
SUBJECT: MEDICINE**

Day : Saturday
Date : 30/08/2025

S-25058-2025

Time : 10:00 AM-12:00 PM
Max. Marks : 40

N.B.:

- 1) All questions are **COMPULSORY**.
- 2) Figures to the right indicate **FULL** marks.
- 3) Draw neat and labelled diagrams **WHEREVER** necessary.
- 4) Answers to both the sections should be written in **SEPARATE** answer books.

SECTION – A

- Q. 1** Short Answer questions (Attempt **ANY FOUR**) (4 x 5 = 20)
- a) Define Diabetes Mellitus. Enumerate complications of Diabetes Mellitus and management of Type 2 Diabetes Mellitus.
 - b) Define hypothyroidism and treatment of hypothyroidism.
 - c) What are fat soluble vitamins? Write about clinical feature and complications of Vitamin B12 deficiency.
 - d) Define polyarthritis. What are the common causes, investigation and management of polyarthritis?
 - e) Describe the effects of alcoholism on different body systems.

SECTION – B

- Q. 2** Short Answer questions (Attempt **ANY FOUR**) (4 x 5 = 20)
- a) Discuss management of acute myocardial infarction. What are two complications of acute myocardial infarction?
 - b) Clinical features and management of community acquired pneumonia.
 - c) Clinical features, diagnosis and management of infective endocarditis.
 - d) Clinical features and management of acute congestive heart failure.
 - e) Describe types of clinical features of bronchiectasis.

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BACHELOR OF PHYSIOTHERAPY
Third Year : SUMMER : 2025
SUBJECT: NEUROLOGY

Day : Saturday
Date : 14/06/2025

S-25059-2025

Time : 10:00 AM-12:00 PM
Max. Marks : 40

N.B.

- 1) All questions are **COMPULSORY**.
- 2) Figures to the **RIGHT** indicate **FULL** marks.
- 3) Draw neat diagram **WHEREVER** necessary.
- 4) Use a **COMMON** answer book for all section.

SECTION - A

- Q.1** Short Answer questions (Attempt **ANY FOUR**) : (4x5=20)
- a) Signs and symptoms of left middle cerebral artery infarction
 - b) Enumerate extrapyramidal disorders
 - c) Enumerate disorders of spinal cord
 - d) Enumerate drugs causing cerebellar ataxia
 - e) Bell's Palsy

SECTION - B

- Q.2** Short Answer questions (Attempt **ANY FOUR**) : (4x5=20)
- a) Clinical features of Amyotrophic Lateral Sclerosis
 - b) Management (Investigations and Treatment) of Diabetic Neuropathy
 - c) Describe hypoxic ischemic encephalopathy
 - d) Encephalitis
 - e) Types of Epilepsy and causes of Epilepsy?

**SUPPLEMENTARY
BACHELOR OF PHYSIOTHERAPY
Third Year : SUMMER : 2025
SUBJECT: NEUROLOGY**

Day : Tuesday
Date : 02/09/2025

S-25059-2025

Time : 10:00 AM-12:00 PM
Max. Marks : 40

N.B.

- 1) All questions are **COMPULSORY**.
- 2) Figures to the **RIGHT** indicate **FULL** marks.
- 3) Draw neat diagram **WHEREVER** necessary.
- 4) Use a **COMMON** answer book for all section.

SECTION - A

- Q.1** Short Answer questions (Attempt **ANY FOUR**) : (4x5=20)
- a) Describe arterial supply of brain with help of a well labelled diagram
 - b) Enumerate drugs responsible for peripheral neuropathy
 - c) Describe clinical features of Parkinson's disease
 - d) Draw a schematic diagram of facial nerve course and structures supplied by it
 - e) Describe meningitis in detail

SECTION - B

- Q.2** Short Answer questions (Attempt **ANY FOUR**) : (4x5=20)
- a) Enumerate subacute causes of cerebellar ataxia
 - b) Enumerate and classify motor neuron disorders
 - c) Describe subacute combined degeneration of spinal cord
 - d) How will you evaluate a patient (Investigations) with suspected Myopathy
 - e) What is dementia, write causes and types?

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BACHELOR OF PHYSIOTHERAPY
Third Year : SUMMER : 2025
SUBJECT: OBSTETRICS & GYNECOLOGY

Day : Thursday
Date : 19/06/2025

S-25062-2025

Time : 10:00 AM-12:00 PM
Max. Marks : 40

N.B.:

- 1) All questions are **COMPULSORY**.
- 2) Figures to the right indicate **FULL** marks.
- 3) Draw neat diagrams **WHEREVER** necessary.
- 4) Answers to both the sections should be written in **SEPARATE** answer books.

SECTION - A

- Q.1** Short Answer questions (Attempt **ANY FOUR**) (4 x 5 = 20)
- a) Write short note on importance of Breast Feeding.
 - b) Write stages of Labour. Describe pain relief measures in first stage of labour.
 - c) Define Puberty. Write changes in breast at puberty.
 - d) Write complications of Abruptio Placentae.
 - e) Give outline of Conservative management of Prolapse.

SECTION - B

- Q.2** Short Answer questions (Attempt **ANY FOUR**) (4 x 5 = 20)
- a) Define Gestational Diabetes Mellitus. Write complications in case of GDM.
 - b) Outline management of pelvic inflammatory disease in a 40 year old female.
 - c) Discuss in brief Complications in Twin Pregnancy.
 - d) Write short note on Emergency contraception.
 - e) Describe indications of LSCS.

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SUPPLEMENTARY
BACHELOR OF PHYSIOTHERAPY
Third Year : SUMMER : 2025
SUBJECT: OBSTETRICS & GYNECOLOGY

Day : Monday
Date : 08/09/2025

S-25062-2025

Time : 10:00 AM-12:00 PM
Max. Marks : 40

NB :

1. All questions are COMPULSORY.
2. Figures to the right indicate FULL marks for the question.
3. Draw neat labelled diagrams WHEREVER necessary.
4. Section -I and Section-II has to written on separate Booklets.

SECTION - I

- Q. 1 Attempt ANY FOUR of the following: (Short Answer) (5x4)
- a) Define antepartum hemorrhage. Write causes for antepartum hemorrhage.
 - b) Antenatal exercises.
 - c) Write complications in twin pregnancy.

 - d) Physiology of lactation.
 - e) Write respiratory system and genitourinary system physiological changes in pregnancy.

SECTION - II

- Q. 2 Attempt ANY FOUR of the following: (Short Answer) (5x4)
- a) Define infertility. Discuss tubal factor in infertility.

 - b) Write clinical signs and symptoms in polycystic ovarian syndrome.

 - c) Barrier contraception in Male and Female.

 - d) Define stress urinary incontinence. Write management of SUI in postmenopausal women.

 - e) Describe types of fibroid. What are the symptoms in a case of fibroid uterus?

BACHELOR OF PHYSIOTHERAPY
Third Year : SUMMER : 2025
SUBJECT: PSYCHIATRY

Day : Friday
Date : 20/06/2025

S-25063-2025

Time : 10:00 AM-12:00 PM
Max. Marks : 40

N.B.

- 1) All questions are **COMPULSORY**.
- 2) Figures to the **RIGHT** indicate **FULL** marks.
- 3) Draw neat diagram **WHEREVER** necessary.
- 4) Both the sections should be written in **SEPARATE** answer book.

SECTION - A

- Q.1** Short Essay Questions (Attempt **ANY FOUR**) : (4x5=20)
- a) Write short note on Phobia and its management
 - b) Discuss Alcohol Dependence and its management
 - c) Discuss Dementia and its types. Add a note on its management
 - d) Write a short note on Anti- Depressant drugs
 - e) Write a short note on Adjustment Disorder

SECTION - B

- Q.2** Short Essay Questions (Attempt **ANY FOUR**) : (4x5=20)
- a) Short note on psychiatry history taking and Mental Status Examination in brief
 - b) Write a short note on Generalized Anxiety Disorder with its management
 - c) Write a short note on Delusions
 - d) Describe Post-Partum Psychiatric Disorders
 - e) Write a short note on Schizophrenia and describe types of Schizophrenia

BACHELOR OF PHYSIOTHERAPY
Third Year : SUMMER : 2025
SUBJECT: COMMUNITY HEALTH & SOCIOLOGY

Day : Tuesday
Date : 17/06/2025

S-25061-2025

Time : 10:00 AM-01:00 PM
Max. Marks : 80

N.B.

- 1) All questions are **COMPULSORY**.
- 2) Figures to the right indicate **FULL** marks.
- 3) Draw neat diagrams **WHEREVER** necessary.
- 4) Answers to both the sections should be written in **SEPARATE** answer book.

SECTION - A
(COMMUNITY HEALTH)

- Q.1** Short Answer Questions (Attempt any **FOUR**) (4X5 = 20)
- a) Discuss Rashtriya Bal Swasthya Karyakram .
 - b) Describe disaster cycle.
 - c) Discuss DASH diet in Hypertension.
 - d) Define health and its determinants.
 - e) Describe growth chart.
- Q.2** Short Answer Questions (Attempt any **FOUR**) (4X5 = 20)
- a) Discuss levels of health care. Enumerate man power and services provided as sub-centre.
 - b) Define infant mortality rate. Discuss factors affecting infant mortality rate in India.
 - c) Describe risk approach in antenatal care.
 - d) Describe sources and health hazards of hospital waste
 - e) Discuss Pneumoconiasis and its preventive measures.

SECTION - B
(SOCIOLOGY)

- Q.3** Short Answer Questions (Attempt any **FOUR**) (4X5 = 20)
- a) Discuss social security schemes for elderly.
 - b) Describe various social problems in the society.
 - c) Discuss the role of medical social worker.
 - d) Nutritional Rehabilitation Centre
 - e) ASHA
- Q.4** Short Answer Questions (Attempt any **FOUR**) (4X5 = 20)
- a) Role of emotions in health and disease.
 - b) Describe voluntary health agencies in India.
 - c) Social media and health education.
 - d) Describe social factors associated with drug abuse.
 - e) Discuss barriers of communication while imparting health education to the community.

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SUPPLEMENTARY
BACHELOR OF PHYSIOTHERAPY
Third Year : SUMMER : 2025
SUBJECT: COMMUNITY HEALTH & SOCIOLOGY

Day : Thursday
Date : 04/09/2025

S-25061-2025

Time : 10:00 AM-01:00 PM
Max. Marks : 80

N.B.

- 1) All questions are **COMPULSORY**.
- 2) Figures to the right indicate **FULL** marks.
- 3) Draw neat diagrams **WHEREVER** necessary.
- 4) Answers to both the sections should be written on **SEPARATE** answer sheet.

SECTION – A (Community Medicine)

- Q.1** Write short notes on (Attempt Any Four) (4x5=20)
- a) Write in detail about occupational health hazards.
 - b) Enumerate national health programs for maternal and child health.
 - c) Write functions of World Health Organization (WHO).
 - d) Add a note on Iceberg phenomenon of disease.
 - e) Write web of causation of coronary heart disease.
- Q.2** Write short notes on (Attempt Any Four) (4x5=20)
- a) Investigator has selected population to conduct a study and collected all information from participants for presence and absence of exposure. Participants were followed for ten years and assessed for outcome. Identify the epidemiological study design. Enumerate the steps and discuss biases which can occur.
 - b) Write Epidemiological triad for Measles. Add note on type and onset, duration & progress of rash in Measles.
 - c) In Pune city, the limit of sound level is exceeding 60 dB at night. Health department is worried about health of citizen. Discuss health hazards due to noise exposure. How Health department will control the noise pollution.
 - d) Define primary health care. Discuss principles & elements of it.
 - e) Name the scientist who discovered the growth chart first. Write the uses of growth chart.

SECTION B (Sociology)

- Q.3** Write short notes on (Attempt Any Four) (4x5=20)
- a) Draw diagram showing communication process. Discuss barriers in communication.
 - b) Write in brief about food practices in family & community.
 - c) Draw planning cycle & discuss in detail.
 - d) Explain the indicators used in the Physical Quality of Life Index (PQLI). Evaluate their significance in assessing a population's well-being.
 - e) Discuss World Health Day 2025 theme.
- Q.4** Write short notes on (Attempt Any Four) (4x5=20)
- a) In one household of 2 rooms, 5 family members of age 70 years, 30 years, 26 years, 5 years & 6 months reside. Assess overcrowding and discuss criteria of overcrowding.
 - b) Define society and Culture. Write in brief about cultural factors in health and disease.
 - c) What are social security measures? Write about multiple social security measures in India.
 - d) In one household, husband & wife with their one daughter, one son with his wife are living. Assess their family type. Discuss the advantages of this family on other types of family.
 - e) Discuss causes & preventive measures for Dowry.

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BACHELOR OF PHYSIOTHERAPY
Third Year : SUMMER : 2025
SUBJECT: FUNCTIONAL DIAGNOSIS & PHYSIOTHERAPEUTIC SKILLS

Day : Monday
Date : 23/06/2025

S-25064-2025

Time : 10:00 AM-01:00 PM
Max. Marks : 80

N.B.

- 1) All questions are **COMPULSORY**.
- 2) Figures to the **RIGHT** indicate **FULL** marks.
- 3) Draw neat diagram **WHEREVER** necessary.
- 4) Both the sections should be written in **SEPARATE** answer book.

SECTION - A

Q.1 Short Answer questions (Attempt **ANY FOUR**) : (4x5=20)

- a) Describe muscle energy techniques. Add a note on Indications and contraindications of muscle energy technique (MET).
- b) Describe three special tests knee joint
- c) Explain the any three outcome measure to assess dynamic balance.
- d) Write note on grades of dyspnoea.
- e) PFT changes in obstructive lung disease.

Q.2 Long Answer questions (Attempt **ANY TWO**) : (10x2=20)

- a) A 53 yr old female has undergone total knee replacement on right side one week back. She is known diabetic, hypertensive and obese. Her pain level is 7/10 on NRS and post operative stiffness of right knee with ROM for right knee is 30-80 degrees & strength of extensors for right knee is 2& flexors are 4. She has no other problems. She has to travel 15 kms daily for her job and stays on 3rd floor in an apartment with no lift facility. Give the functional evaluation with clinical reasoning according to ICF. (5+5)
- b) A 52Yr Male clerk by occupation, hypertensive and right hand dominant suffering from Left MCA haemorrhagic stroke 4 months back and has been regular on physiotherapy exercises. Presently he has grade 4 VC in lower limbs and grade 3 VC in upper limbs with hand grade 4 (Brunnstrom). Write his functional diagnosis with clinical reasoning as per ICF. (5+5)
- c) A 50 yr old shopkeeper has undergone coronary artery bypass grafting for triple vessel disease a week back. He is having history of hypertension since 6 years and smoking 10-12 cigarettes daily since 15 years. Prior to surgery he was suffering from reduced left ventricle contractile function. Currently patient is having pain at suture site, breathlessness. Surgeon allowed walking slowly around the bed and progress ambulation as per patient's tolerance for ambulation. Patient stays at first floor without lift facility. Write his functional diagnosis with clinical reasoning as per ICF. (5+5)

P.T.O.

SECTION - B

Q.3 Long Answer questions (Attempt ANY TWO) :

(4x5=20)

- a) Define Rheobase and Chronaxie and discuss factors influencing them
- b) Write the grades of Kaltenborn mobilization
- c) Methods for Graded Exercise Testing and criteria for termination of same
- d) ECG changes in Acute Myocardial Infarction
- e) Write down principles of Mulligan Concept with explanation. Mention its contraindications

Q.4 Short Answer questions (Attempt ANY FOUR) :

(10x2=20)

- a) 32 years old female school teacher having two children had traumatic injury to the lumbar spine and sustained fracture of D12 vertebra one month back. She was operated for fracture fixation 3 weeks back. Presently she has bilateral weakness with flaccidity, loss of bowel and bladder control. Discuss assessment, functional diagnosis with clinical reasoning and list impairments. (5+5)
- b) A 30 year old male Engineer with history of trauma to the left knee 4 months back comes to physiotherapy. He was operated with K-wire to the patella and his ROM for left knee from 0 to 70 degrees and strength of extensors for left knee is 3 & flexor 3. He has no other problems. He has to travel 30kms daily for his job on a bike and stays on 2nd floor with no facility of lift and commode toilet. Write detail evaluation, functional diagnosis with clinical reasoning. (5+5)
- c) A 55 year old city transit system bus driver complaint of dyspnea increased over a period of time. He gives a history of weight gain, swelling of the nail beds and cyanosis of the extremities. He also has a history of smoking since last 20 years with an average of 20 cigarettes per week. Discuss in detail evaluation, functional diagnosis with clinical reasoning. (5+5)

SUPPLEMENTARY
BACHELOR OF PHYSIOTHERAPY
Third Year : SUMMER : 2025
SUBJECT: FUNCTIONAL DIAGNOSIS & PHYSIOTHERAPEUTIC SKILLS

Day : Wednesday
Date : 10/09/2025

S-25064-2025

Time : 10:00 AM-01:00 PM
Max. Marks : 80

NB :

1. Draw neat labelled diagrams WHEREVER necessary.
2. Figures to the right indicate FULL marks for the question.
3. All questions are COMPULSORY.

SECTION - I

Q. 1 Attempt ANY TWO of the following: (Long Answer) (10x2)

- a) A 58-year-old female presents with chronic bilateral knee pain, stiffness in the morning lasting for about 30 minutes, and difficulty climbing stairs. She has a sedentary lifestyle and a BMI of 31. On examination, she has decreased quadriceps strength, restricted end range knee flexion, and altered gait pattern. She reports difficulty performing household chores and attending community events due to pain.
 - i) Discuss the appropriate physiotherapy assessment for this patient.
 - ii) Identify and explain the key impairments with clinical reasoning.
 - iii) Describe the activity limitations, participation restrictions, and list the contextual factors.

- b) A 60-year-old male, 2 weeks post-anterior wall MI, presents for cardiac rehabilitation. He reports exertional dyspnea, fatigue, and fear of engaging in physical activity. His vitals are stable at rest. He has poor chest expansion, reduced aerobic capacity, and anxiety related to exertion.
 - i) Discuss the appropriate physiotherapy assessment for this patient.
 - ii) Identify and explain the key impairments with clinical reasoning.
 - iii) Describe the activity limitations, participation restrictions, and list the contextual factors.

- c) A 28-year-old woman, 6 weeks post-normal vaginal delivery, reports low back pain and pelvic heaviness. On assessment, she has poor core strength, diastasis recti (>2 finger separation), and weak pelvic floor muscles. She finds it difficult to lift her baby and resume light physical activity.
 - i) Discuss the appropriate physiotherapy assessment for this patient.
 - ii) Identify and explain the key impairments with clinical reasoning.
 - iii) Describe the activity limitations, participation restrictions, and list the contextual factors.

Q. 2 Attempt ANY FOUR of the following: (Short Answer) (5x4)

- a) Explain the ASIA Impairment Scale and its role in the assessment of spinal cord injuries.

- b) Describe the assessment of diastasis recti and its clinical significance.

- c) Describe the Modified Bruce Protocol and its clinical significance in cardiopulmonary assessment.

- d) Describe the principles of Rood's technique with examples.

- e) Describe any three test to assess knee joint instability.

SECTION - II

Q. 3 Attempt ANY TWO of the following: (Long Answer)

(10x2)

- a) A 38-year-old female presents with sudden onset right-sided facial weakness noticed upon waking. She is unable to close her right eye completely, shows drooping of the mouth corner, and reports difficulty drinking fluids without spillage. She has no history of trauma or recent infections. Clinical examination confirms House-Brackmann grade IV facial nerve involvement.
- Discuss the appropriate physiotherapy assessment for this patient.
 - Identify and explain the key impairments with clinical reasoning.
 - Describe the activity limitations, participation restrictions, and list the contextual factors
- b) A 62-year-old female with a 20-year history of smoking presents with chronic cough, exertional dyspnea, and reduced exercise tolerance. She uses accessory muscles for breathing and shows reduced chest expansion. mMRC dyspnea grade is 3. She has difficulty performing ADLs independently.
- Discuss the appropriate physiotherapy assessment for this patient.
 - Identify and explain the key impairments with clinical reasoning.
 - Describe the activity limitations, participation restrictions, and list the contextual factors.
- c) A 24-year-old female sustained deep partial-thickness burns on the anterior aspect of the right shoulder and upper arm. She presents 3 weeks post-injury with pain, restricted shoulder range, muscle tightness, and functional difficulty in grooming and reaching. There is visible scarring and keloid formation.
- Discuss the appropriate physiotherapy assessment for this patient.
 - Identify and explain the key impairments with clinical reasoning.
 - Describe the activity limitations, participation restrictions, and list the contextual factors.

Q. 4 Attempt ANY FOUR of the following: (Short Answer)

(5x4)

- Discuss hemiplegic gait and its underlying causes.
- Describe the breath-holding test and its significance in pulmonary assessment.
- Define Strength-Duration Curve and its application in electrodiagnosis.
- Explain slump tests in lumbar spine assessment.
- Write a short note on the Mini Mental Scale and its role in geriatric evaluation.

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