

[LP 0819]

AUGUST 2019

Sub. Code: 2461

BACHELOR IN PROSTHETICS & ORTHOTICS
(New Syllabus 2017-2018)

SECOND YEAR

PAPER I – PATHOLOGY

Q.P. Code: 802461

Time: Three Hours

Maximum : 100 Marks

Answer All questions

I. Elaborate on: **(3 x 10 = 30)**

1. Definition, clinical features, causes and types of Gangrene.
2. Describe the steps involved in wound healing. Mention the factors involving in wound healing.
3. Describe fracture healing and remodelling with diagrams.

II. Write notes on: **(8 x 5 = 40)**

1. Write about Cerebrovascular accidents.
2. Differences between benign and malignant tumours.
3. Causes and levels of lower leg amputations.
4. Human Immuno deficiency virus.
5. Features of acute inflammation.
6. Write about Megaloblastic anaemia.
7. What is Air embolism?
8. Laboratory diagnosis of Diabetes Mellitus.

III. Short answers on: **(10 x 3 = 30)**

1. Features of Aplastic anaemia.
2. Write about Osteogenic sarcoma.
3. Clinical features of Thromboangitis obliterans.
4. What is Ischemia?
5. What is Metastasis?
6. Write about Gas gangrene.
7. What is Reversible injury?
8. List the types of diabetes mellitus.
9. What are the hand deformities in Rheumatoid arthritis?
10. Name any three auto-immune diseases.

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[AHS 0321]

MARCH 2021

Sub. Code: 2461

(AUGUST 2020 EXAM SESSION)

BACHELOR IN PROSTHETICS AND ORTHOTICS

SECOND YEAR (Regulation 2017-2018)

PAPER I – PATHOLOGY

Q.P. Code : 802461

Time: Three hours

Answer ALL Questions

Maximum: 100 Marks

I. Elaborate on:

(3 x 10 = 30)

1. What is neoplasia and what are the types of tumors. Write notes on grading and staging of Cancer.
2. Describe the steps involved in wound healing. Mention the factors involving in wound healing.
3. What are the features, types and causes of Acute and Chronic inflammation.

II. Write notes on:

(8 x 5 = 40)

1. TB Spine
2. Osteoporosis
3. Duchenne Muscular dystrophy
4. Discuss the primary and secondary injury in TBI
5. Short note on Fracture healing.
6. Coagulation disorders
7. Diabetes Mellitus – pathogenesis, clinical features and laboratory diagnosis
8. Definition, clinical features, causes and types of Gangrene

III. Short answers on:

(10 x 3 = 30)

1. Peripheral occlusive vascular disease
2. Megaloblastic anemia
3. Dystrophin
4. Pathology of Chronic wounds
5. Pathology of Rheumatoid arthritis
6. Clinical features of Thromboangitis obliterans
7. Triple response
8. Multiple Sclerosis
9. Poliomyelitis
10. Avascular necrosis

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[AHS 0222]

**FEBRUARY 2022
(AUGUST 2021 EXAM SESSION)**

Sub. Code: 2461

**BACHELOR IN PROSTHETICS AND ORTHOTICS
SECOND YEAR (Regulation 2017-2018)
PAPER I – PATHOLOGY
Q.P. Code : 802461**

Time: Three hours

Answer ALL Questions

Maximum: 100 Marks

I. Elaborate on: (3 x 10 = 30)

1. Define thrombosis. Describe the pathogenesis, pathology and complications of thrombosis
2. Define neoplasia. Discuss about laboratory diagnosis of cancer, Grading and Staging of Tumors
3. Etiological classification of risk factors of Cerebro Vascular Accident

II. Write notes on: (8 x 5 = 40)

1. Chronic granulomatous inflammation
2. Septic shock
3. Psoriatic arthritis
4. Foot care in diabetes
5. Define Atherosclerosis and Discuss the complications
6. Hemiplegia
7. Traumatic spinal cord injury and its complications
8. Mediators of chronic inflammation

III. Short answers on: (10 x 3 = 30)

1. Abscess
2. Irreversible injury
3. Healing in fracture
4. Septic infarction
5. Factors influencing tissue repair
6. Osteoporosis
7. Cytokines
8. Role of orthotics in cerebro vascular accidents
9. Amyloid
10. Types of blood Groups

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[AHS 0922]

SEPTEMBER 2022

Sub. Code: 2461

(FEBRUARY 2022 & AUGUST 2022 EXAM SESSIONS)

BACHELOR IN PROSTHETICS AND ORTHOTICS

SECOND YEAR (Regulation from 2017-2018)

PAPER I – PATHOLOGY

Q.P. Code : 802461

Time: Three hours

Answer ALL Questions

Maximum: 100 Marks

I. Elaborate on:

(3 x 10 = 30)

1. Define immunologic tolerance. Write in detail about central tolerance and peripheral tolerance.
2. Deformities of hand in Rheumatoid Arthritis and its orthotic management.
3. Define types of Hypersensitivity reactions with examples. Name any five autoimmune diseases.

II. Write notes on:

(8 x 5 = 40)

1. Healing by secondary intention.
2. Edema.
3. Stages of Shock.
4. Deep vein thrombosis.
5. Angiogenesis.
6. Osteoarthritis.
7. Becker's Muscular dystrophy.
8. SLE.

III. Short answers on:

(10 x 3 = 30)

1. Histamine and its role in Acute inflammation.
2. Types of Granulomas.
3. Liquefactive Necrosis.
4. Epithelioid cells.
5. Blood Grouping and Rh typing.
6. Metaplasia.
7. Complications of poliomyelitis.
8. Nonunion of fracture.
9. Wrist drop.
10. Rickets.

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[AHS 0423]

APRIL 2023

Sub. Code: 2461

BACHELOR IN PROSTHETICS AND ORTHOTICS

SECOND YEAR (Regulation 2017-2018 onwards)

PAPER I – PATHOLOGY

Q.P. Code: 802461

Time: Three hours

Answer ALL Questions

Maximum: 100 Marks

I. Elaborate on:

(3 x 10 = 30)

1. Define Shock. Mention its types and brief about each type.
2. Causes and levels of Lower Extremity Amputation.
3. Risk factors, clinical features and complications of Diabetes Mellitus.

II. Write notes on:

(8 x 5 = 40)

1. Genetic diseases.
2. Paget's disease.
3. Guillain-Barre syndrome.
4. Parkinson's disease.
5. Physiological and Pathological Hyperplasia.
6. Hemophilia.
7. Type 1 and Type 2 Myofibres.
8. Duchenne Muscular dystrophy.

III. Short answers on:

(10 x 3 = 30)

1. Causes of cell injury.
2. Peripheral Neuropathy.
3. Healing by Primary intention.
4. Ischemic infarction.
5. Pathways of Spread of Tumor.
6. Osteoarthritis.
7. Multiple sclerosis.
8. Complications of Rheumatoid Arthritis.
9. Cross matching.
10. Role of Orthotics in Autoimmune diseases.

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[AHS 0424]

APRIL 2024

Sub. Code: 2461

BACHELOR IN PROSTHETICS AND ORTHOTICS

SECOND YEAR (Regulation 2017-2018 onwards)

PAPER I – PATHOLOGY

Q.P. Code: 802461

Time: Three hours

Answer ALL Questions

Maximum: 100 Marks

I. Elaborate on:

(3 x 10 = 30)

1. Describe Fracture Healing and Remodeling with diagram.
2. Detail account on Embolism and types of Embolism.
3. Detail account on causes, cellular event and vascular event of Acute Inflammation.

II. Write notes on:

(8 x 5 = 40)

1. Type II hypersensitivity reaction.
2. Rheumatoid arthritis.
3. Inheritance of Hemophilia.
4. Diabetic Mellitus – Pathogenesis and laboratory diagnosis.
5. Wound healing by Primary intention.
6. Traumatic Spinal Cord injury and its complications.
7. Genetic disorder.
8. Parkinson disease.

III. Short answers on:

(10 x 3 = 30)

1. Role of Orthotics in Cerebro Vascular accidents.
2. Infarction.
3. Cytokines.
4. Erythropoietin.
5. Gas gangrene.
6. SLE.
7. Growth factors.
8. Avascular necrosis.
9. Dystrophin.
10. Osteomalacia.

THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY

[AHS 1125]

NOVEMBER 2025

Sub. Code: 2461

BACHELOR IN PROSTHETICS AND ORTHOTICS

SECOND YEAR (Regulation 2017-2018 onwards)

PAPER I – PATHOLOGY

Q.P. Code: 802461

Time: Three hours

Answer ALL Questions

Maximum: 100 Marks

I. Elaborate on:

(3 x 10 = 30)

1. Define Necrosis. Mention its types and pathogenesis of each.
2. Deformities of hand in Rheumatoid arthritis and its Orthotic management.
3. Different types of Hypersensitivity reactions with examples. Name any five Auto-immune diseases.

II. Write notes on:

(8 x 5 = 40)

1. Pathology in muscular dystrophy.
2. Methods of fracture healing.
3. Inheritance of hemophilia.
4. Clinical features of thromboangitis obliterans.
5. Foot care in Diabetes mellitus.
6. Explain the pathogenesis of Human Immunodeficiency virus.
7. Pathophysiology of Poliomyelitis.
8. Describe Metastasis.

III. Short answers on:

(10 x 3 = 30)

1. Causes of Cell injury.
2. Peripheral Neuropathy.
3. What is Wrist drop?
4. Write a short note on Rickets.
5. Abscess.
6. What are the lab diagnosis of Genetic disorder?
7. Pathology of Chronic wounds.
8. Multiple Sclerosis.
9. Peripheral occlusive vascular disease.
10. Tuberculosis of spine.
