

BPT
March 2025

BLDE (DEEMED TO BE UNIVERSITY)
BACHELOR OF PHYSIOTHERAPY

[Time: 3 Hours]

[Max. Marks: 80]

IV SEMESTER
PAPER - I (Exercise Therapy II)
QP CODE: 8420

Your answer should be specific to the questions asked.
Write Question No. in left side of margin.

Long Questions

10X1 = 10 Marks

1. Properties of water. Explain types of hydrotherapy and its merits and demerits.

Short Essays: (Any – 8)

5 X 8 = 40 Marks

2. Frenkel's exercise
3. Walking Aids
4. Define home program. Mention merits and demerits.
5. Types of aerobic training.
6. Define Suspension therapy. Explain its types.
7. Upper limb mobilization techniques.
8. Principles and methods of application of traction.
9. Techniques of breathing exercises.
10. Explain the principles of aerobic exercise training and its effect on cardiovascular system.

Short Answers: (Any – 10)

3 X 10 = 30 Marks

11. Effects of stretching
12. Maitland mobilization
13. Hydrotherapy indications
14. Define limits of stability, centre of mass, centre of gravity.
15. Petrissage
16. Components of exercise program
17. Causes of impaired balance
18. Pulleys and its types.
19. Posture.
20. Circuit training.
21. Vertical suspension.

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IV SEMESTER
PAPER - II (Electrotherapy II)
QP CODE: 8421

Your answer should be specific to the questions asked.

Write Question No. in left side of margin.

Long Questions

10X1 = 10 Marks

1. Describe ultrasound therapy and explain its principle, production, coupling media, and dangers.
Add a note on phonophoresis.

Short Essays: (Any – 8)

5 X 8 = 40 Marks

2. Explain in brief about shock wave therapy.
3. Principle, physiological, and therapeutic effects of cryotherapy.
4. Principle and production of SWD.
5. UVR generators.
6. Physiological and therapeutic effects of LASER and add a note on indication and contraindication.
7. Principle and application methods of whirlpool.
8. Indication and contraindication of wax therapy.
9. Explain in brief about MWD
10. Enumerate types of UVR

Short Answers: (Any – 10)

3 X 10 = 30 Marks

11. Danger of LASER.
12. Fluidotherapy
13. Electromagnetic spectrum.
14. Duration and frequency of IRR.
15. Dosage of SWD
16. Principle of PEME
17. Wavelength and parameters of IRR.
18. Therapeutic uses of contrast bath.
19. Biofeedback
20. Uses of shockwave therapy.
21. Moist heat therapy.

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[Max.Marks:40 marks]

IV SEMESTER

PAPER – III (Pathology/Microbiology)

QP CODE: 8422/8424

Your answer should be specific to the questions asked.
Write Question No. in left side of margin.

QP CODE: 8422 (Pathology)

Long Questions

10X1 = 10 Marks

1. Describe the etiology, pathogenesis, and complications of atherosclerosis. (3+4+3)

Short Essays: (Any – 4)

5 X 4 = 20 Marks

2. Etiology and stages of lobar pneumonia.
3. Liver abscess.
4. Rheumatoid arthritis .
5. Etiology and clinical features of hypothyroidism.
6. Complications of Diabetes mellitus.

Short Answers (Any – 5)

2 X 5 = 10 Marks

7. Enlist four causes of splenomegaly.
8. Name four complications of infective endocarditis.
9. Write four predisposing conditions for squamous cell carcinoma of skin.
10. Enumerate risk factors for peptic ulcer.
11. Modes of spread of Hepatitis B virus.
12. Name four causes of meningitis.

QP CODE: 8424 (Microbiology)

Long Questions

10X1 = 10 Marks

1. Name the species of Plasmodium. Describe the life cycle, laboratory diagnosis and treatment of malaria.

Short Essays: (Any – 4)

5 X 4 = 20 Marks

2. Dermatophytosis
3. Cultivation of virus
4. Laboratory diagnosis of Hepatitis B infection
5. Laboratory diagnosis of Cryptococcus neoformans
6. Stool concentration methods.

Short Answers (Any – 5)

2 X 5 = 10 Marks

7. Name the infections that are caused by Candida species
8. Name the fungus causing eye infection
9. MMR Vaccine
10. Enlist viruses causing diarrhea
11. Name the species of aspergillus
12. Name the parasitic zoonotic diseases

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IV SEMESTER
PAPER - IV (Pharmacology)
QP CODE: 8423

Your answer should be specific to the questions asked.
Write Question No. in left side of margin.

Long Questions

10X1 = 10 Marks

1. Classify antiepileptic drugs and explain mechanism of action and adverse effects of Phenytoin.

Short Essays: (Any – 8)

5 X 8 = 40 Marks

2. Describe factors modifying drug effects.
3. Describe therapeutic uses and adverse effects of Aspirin.
4. Inhalational bronchodilators.
5. Therapeutic uses and adverse effects of Adrenaline.
6. Enumerate cardio selective beta blockers and their uses.
7. Describe therapeutic uses and adverse effects of Nitrates.
8. Classify skeletal muscle relaxants.
9. Describe the mechanism of action, therapeutic uses of Heparin.
10. Levodopa.

Short Answers: (Any – 10)

3 X 10 = 30 Marks

11. What is first pass metabolism? How does it affect the bioavailability of a drug?
12. List any three plant sources of drugs.
13. Enlist three antiviral drugs.
14. Name any two nasal decongestants with two adverse effects.
15. Name four drugs used in Rheumatoid Arthritis.
16. Mention three drugs used in constipation treatment.
17. Adverse effects of glucocorticoids
18. Mention two uses and two adverse effects of immunosuppressants.
19. Mention two drugs causing postural hypotension in elderly.
20. Mention two drugs used to prevent osteoporosis
21. Mention three oral antidiabetic drugs.