

BPT - IV

**BLDE (DEEMED TO BE UNIVERSITY)  
BACHELOR OF PHYSIOTHERAPY**

Jan-2023.

[Time: 3 Hours]

[Max. Marks: 80]

**IV SEMESTER**

**PAPER - I (Exercise Therapy 2)**

**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. Define massage. classify massage with indications and contraindications

**Short Essays: (Any – 8)**

**5 X 8 = 40 Marks**

2. List the types walking aids with their uses
3. Define functional re-education and mention the stages from lying to sitting
4. Describe the stretching technique for hamstring tightness
5. Examination of incoordination
6. List the properties of water and indications of hydrotherapy
7. Give a note on pranayama and its uses
8. Write the determinants of aerobic exercise. give a note on circuit interval training
9. Explain physiology of balance and types of balance training
10. Define hydrotherapy. Write a note on properties of water, merits and demerits of hydrotherapy

**Short Answers: (Any – 10)**

**3 X 10 = 30 Marks**

11. Define effleurage technique
12. Give three benefits of practicing asanas
13. Write 3 contraindication of mobilization techniques
14. Mention any 3 uses of stretching
15. Indications of functional re-education
16. Types of walking aids
17. Indication for axillary crutch
18. Importance of group exercise
19. Balance training
20. Self-stretching
21. Mention 3 uses of hydrotherapy

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**IV SEMESTER**

**PAPER - II (Electrotherapy 2)**

**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. Define IFT. Explain principle and production of IFT. Describe physiological and therapeutic effects of IFT.

**Short Essays: (Any – 8)**

**5 X 8 = 40 Marks**

2. Explain physiological and therapeutic effects of cryotherapy
3. Write note on physiological and therapeutic effects of IRR
4. Describe principle and production of MWD
5. Describe principle and application of ultrasound
6. Explain production of laser
7. Define UVR and types of UVR
8. Physiological effects and indication of SWD
9. Production and principle of laser
10. Discuss near and far field ultrasound

**Short Answers: (Any – 10)**

**3 X 10 = 30 Marks**

11. What is duty cycle
12. Define nociception
13. What is latent heat
14. Define electromagnetic induction
15. What is PUVA
16. Mention the properties of Laser
17. Define electromagnetic spectrum
18. What is attenuation
19. Name dangers of UVR
20. Standing waves
21. Define pain gate theory

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**IV SEMESTER**

**PAPER – III (Microbiology & Pathology - II)**

**QP CODE: 8422**

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

**QP CODE: 8424 (Microbiology)**

**Long Questions**

1. Laboratory Diagnosis of Enteric fever

**10X1 = 10 Marks**

**Short Essays: (Any – 4)**

2. Morphology of viruses  
3. Pathogenesis and Laboratory diagnosis of Ascariasis  
4. Dermatophytosis  
5. Laboratory diagnosis of Urinary Tract Infection caused by Esch. Coli  
6. Tuberculin test.

**5 X 4 = 20 Marks**

**Short Answers (Any – 5)**

7. Enumerate test for Lab. diagnosis of syphilis  
8. Enumerate ~~three each~~ Transport media for vibrio cholerae  
9. Mode of transmission of HIV infection  
10. Enumerate malarial species  
11. Enumerate infection caused by Candida  
12. Classify hepatitis viruses

**2 X 5 = 10 Marks**

**QP CODE: 8422 (Pathology)**

**Long Questions**

1. Describe the Etiopathogenesis and complications of atherosclerosis.

**10X1 = 10 Marks**

**Short Essays: (Any – 4)**

2. Classify bone tumors  
3. Modified Jones criteria for Rheumatic Heart disease.  
4. Etiology for colorectal carcinoma  
5. Thyrotoxicosis  
6. Types and laboratory diagnosis of jaundice

**4 X 5 = 20 Marks**

**Short Answers (Any – 5)**

7. Write four causes of lymph node enlargement  
8. Enumerate COPDs  
9. Name four salivary gland tumors  
10. Enlist four causes of splenomegaly  
11. List four etiological agents for peptic ulcer  
12. Name four agents causing occupational lung diseases

**2 X 5 = 10 Marks**

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[Max. Marks: 80]

**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 anti-epileptic drugs; explain mechanism of action, therapeutic uses and adverse effects sodium valproate.

**Short Essays: (Any – 8)**

**5 X 8 = 40 Marks**

2. Advantages and disadvantages of intravenous route of drug administration.
3. Explain mechanism of action and therapeutic uses of H<sub>2</sub> antagonists.
4. Explain drugs used in treatment of myasthenia gravis.
5. Drugs used in treatment of angina.
6. Classify beta blockers and mention three uses.
7. Classify anti-thyroid drugs, mention adverse effects of propylthiouracil.
8. Intravenous anesthetics.
9. Calcium channel blockers
10. Classify ant-arrhythmic drugs.

**Short Answers: (Any – 10)**

**3 X 10 = 30 Marks**

11. Explain the reasons for combining lignocaine with adrenaline
12. Two uses and two adverse of atropine.
13. Name three bronchodilators.
14. Name three drugs used in Parkinsonism.
15. Name two diuretics and two uses.
16. Name three topical corticosteroids.
17. Plasma protein binding.
18. Name three oral hypoglycemic agents.
19. Drugs used in treatment of constipation
20. Name three ant-anxiety drugs.
21. Two uses and two adverse effects of lithium