

June-2023

**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. Define, Discuss Posture types, & physiology of posture maintenance.

**Short Essays: (Any – 8)**

**5 X 8 = 40 Marks**

2. Describe axillary crutch & Discuss measurement for the same.
3. Discuss effects of maitland mobilization.
4. Discuss effects & technique of dynamic stretching.
5. Discuss coordination testing for upper limb.
6. Discuss anyone sitting yoga asana.
7. Discuss pre crutch training.
8. Discuss disadvantages of hydrotherapy.
9. Discuss contraindications to massage.
10. Principles of posture reeducation

**Short Answers: (Any – 10)**

**3 X 10 = 30 Marks**

11. Buoyancy.
12. Archimede's principle.
13. Length tension relationship.
14. Sitting to standing functional reeducation.
15. Causes of impaired balance.
16. Kalternborn manipulation.
17. Effects of joint mobilization.
18. Wringing.
19. Padmasana.
20. Pranayama.
21. Petrissage.

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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. 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. Discuss Russian currents
3. Production and principle of laser
4. Physiological effects and indication of SWD
5. Define UVR and types of UVR
6. Principles of Fluidotherapy
7. Give the physiological effects of IRR.
8. Give the benefits of cold packs usage.
9. Describe the indications and contra indications of contrast bath usage.
10. Explain the type of applicators used in a MWD unit and its uses.

**Short Answers: (Any – 10)**

**3 X 10 = 30 Marks**

11. Define pain gate theory
12. What is PUVA
13. Mention the properties of Laser
14. What is latent heat
15. Define electromagnetic induction
16. Standing waves
17. Define beat frequency in interferential currents
18. Drugs used for iontophoresis.
19. Classify pain fibers.
20. What is cross fire technique?
21. What is near and far field?

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**IV SEMESTER**

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

**QP CODE: 8422/8424**

Your answer should be specific to the questions asked.

Write Question No. in left side of margin.

**QP Code: 8424 (Microbiology)**

**Long Questions**

**10X1 = 10 Marks**

1. Enumerate the bacteria causing Urinary tract infection(UTI) and describe the laboratory diagnosis of UTI caused by E.coli (3+7)

**Short Essays: (Any – 4)**

**4 X 5 = 20 Marks**

2. Laboratory diagnosis of Hepatitis B infection
3. Life cycle of Entamoeba histolytica
4. Laboratory diagnosis of M. tuberculosis
5. Polio vaccines
6. Laboratory diagnosis of Malaria

**Short Answers (Any – 5)**

**2 X 5 = 10 Marks**

7. Structure of HIV
8. Name two zoonotic diseases
9. Name two sexually transmitted diseases
10. Name two fungi causing opportunistic infections
11. Hydatid cyst
12. Name two antifungal agents

**QP Code: 8422 (Pathology)**

**Long Questions**

**10X1 = 10 Marks**

1. Describe the etiopathogenesis, clinical features and laboratory diagnosis of pulmonary tuberculosis. (4+3+3)

**Short Essays: (Any – 4)**

**4 X 5 = 20 Marks**

2. Complications of hypertension
3. Discuss risk factors for cancer of oral cavity
4. Types and laboratory diagnosis of jaundice
5. Clinical features of Rheumatoid arthritis
6. Types and Complications of Diabetes mellitus.

**Short Answers (Any – 5)**

**2 X 5 = 10 Marks**

7. Name four major risk factors for atherosclerosis
8. Enlist four causes of splenomegaly
9. What is meningitis? Write three causes
10. List four causes of Gastritis
11. Write four risk factors for cholecystitis
12. Name four bone tumors

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

**Short Essays: (Any – 8)**

**5 X 8 = 40 Marks**

2. Drug antagonism
3. Pharmacotherapy of Myasthenia gravis
4. Drugs used in allergic rhinitis
5. Nifedipine
6. Angiotensin converting enzyme inhibitors
7. Thrombolytic drugs
8. Insulin preparations
9. Diazepam
10. Proton pump inhibitors

**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 four plant sources of drugs.
13. Rational for using physostigmine in atropine poisoning.
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. List any four lipid-lowering agents.
18. Name any two uses and adverse effects of digoxin.
19. Adverse effects of glucocorticoids
20. Mention two uses and two adverse effects of immunosuppressants.
21. Mention three antidepressants