

JAN-2024

**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 VO₂ max, Discuss physiological effects of aerobic exercises.

Short Essays: (Any – 8)

5 X 8 = 40 Marks

2. Discuss principles & uses of functional reeducation.
3. Add a note on exercise testing.
4. Define stretching & discuss determinants of stretching.
5. Define coordination role of cerebellum in coordination.
6. Discuss anyone lying yoga asana.
7. Discuss canes used in rehabilitation.
8. Discuss contraindications of hydrotherapy.
9. Discuss contraindications to massage.
10. Principles & benefits of group exercises.

Short Answers: (Any – 10)

3 X 10 = 30 Marks

11. Enumerate physical properties of water
12. Deep friction massage.
13. Frenkels exercises.
14. Interval training.
15. Causes of poor posture.
16. Mulligan mobilization.
17. Causes of joint stiffness.
18. Kneading.
19. Sukhasana.
20. Kapaalbhaati pranayama.
21. Define strength, endurance & power.

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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 short wave diathermy? Enumerate principle and production of SWD. Discuss about indications and contraindication of SWD.

Short Essays: (Any – 8)

5 X 8 = 40 Marks

2. Explain Pain gate theory and how TENS works on pain gate theory.
3. Thermal and non-Thermal effects of ultrasound.
4. Principles of wax therapy application.
5. Discuss about near and far field ultrasound.
6. Classification of IRR and production of IRR.
7. Enumerate principle of production & physiological effects of interferential therapy.
8. Define cryotherapy and discuss about principle of latent heat of fusion.
9. Physiological and therapeutic effects of LASER.
10. Methods and application of contrast bath.

Short Answers: (Any – 10)

3 X 10 = 30 Marks

11. Define electromagnetic spectrum
12. Name the types of application of SWD
13. Enumerate methods of paraffin wax application.
14. Classification of LASER
15. Enumerate properties of laser.
16. Acoustic and standing waves.
17. Define high frequency current & enlist the currents..
18. Define MWD
19. Contra indications for IFT.
20. Types of UVR
21. Half value distance (depth) in ultrasound & its importance.

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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. Describe the morphology, modes of transmission and laboratory diagnosis of HIV infection
(2+3+5)

Short Essays: (Any – 4)

4 X 5 = 20 Marks

2. Laboratory diagnosis of Malaria
3. Pathogenesis of Cholera
4. Laboratory diagnosis of M. tuberculosis
5. Ascaris lumbricoides
6. Polio vaccines

Short Answers (Any – 5)

2 X 5 = 10 Marks

7. Subcutaneous mycosis
8. Structure of Hepatitis B Virus
9. Pseudomonas
10. Amoebic dysentery
11. Name two bacteria causing Urinary tract infection
12. Candidiasis

QP Code: 8422 (Pathology)

Long Questions

10X1 = 10 Marks

1. Describe the etiopathogenesis, clinical features and complications of Diabetes mellitus. (4+3+3)

Short Essays: (Any – 4)

4 X 5 = 20 Marks

2. Peptic ulcer disease
3. Enumerate the skeletal changes in Rickets.
4. Etiopathogenesis of myocardial infarction
5. What is Pneumonia? Stages of lobar Pneumonia
6. Viral hepatitis

Short Answers (Any – 5)

2 X 5 = 10 Marks

7. List four etiological agents for carcinoma lung
8. What is jaundice? Write three causes.
9. Write four causes of arthritis.
10. Name four tumors of thyroid gland
11. Write four causes of lymph node enlargement
12. Name any four congenital heart 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 NSAIDs and Explain mechanism of action, therapeutic uses ~~of~~ adverse effects of aspirin.

Short Essays: (Any – 8)

5 X 8 = 40 Marks

2. Enumerate various routes of administration of drugs.
3. Cardiac glycosides
4. Anabolic steroids
5. Write a note on centrally acting skeletal muscle relaxants.
6. Describe the mechanism of action and therapeutic uses of omeprazole.
7. Classify sedative- Hypnotics.
8. Bronchodilators.
9. Levodopa
10. Drugs used in Myasthenia gravis.

Short Answers: (Any – 10)

3 X 10 = 30 Marks

11. List any four plant sources of drugs.
12. Name any two nasal decongestants with two adverse effects.
13. List four atypical antipsychotic drugs
14. Mention four disease modifying antirheumatic drugs.
15. Why carbidopa is co-administered with L-Dopa?
16. Mention two clinical uses and adverse effects of sodium valproate.
17. Mention two drugs to prevent osteoporosis
18. Mention two emergency uses of adrenalin
19. What is teratogens? Give one example
20. Enlist two antiemetic drugs.
21. Name any two Thrombolytic with two indications.