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BLDE (DEEMED TO BE UNIVERSITY)
BACHELOR OF PHYSIOTHERAPY

[Time: 3 Hours]

[Max. Marks: 80]

SECOND YEAR (REVISED)
PAPER I - (Pathology & Microbiology)
QP CODE: 82200 - (Pathology)

Long Questions: (Any – 1) **10X1 = 10 Marks**

1. Define necrosis. Explain the different types of necrosis with examples. (2+8)
2. Define Neoplasia. Write the differences between benign and malignant tumors. Explain the pathways of the spread of malignant tumors. (2+4+4)

Short Essays: (Any – 3) **5 X 3 = 15 Marks**

3. Classify bone tumors. Describe the gross and microscopy of any three bone tumors.
4. Describe cellular events of inflammation.
5. Laboratory findings of iron deficiency anemia.
6. Describe the morphology of heart in rheumatic heart disease.

Very Short Essay: (All – 5) **3 X 5 = 15 Marks**

7. Three causes of thrombocytopenia.
8. Three examples of autoimmune disorders.
9. Draw a neat, labelled diagram of a granuloma.
10. Three complications of diabetes mellitus type 2.
11. Three differences between exudate and transudate.

QP Code: 82250 – (Microbiology) **[40 marks]**

Long Questions: (Any – 1) **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)
2. Classify hepatitis viruses. Describe the laboratory diagnosis of infections caused by Hepatitis B Virus. Add a note on Hepatitis B Virus vaccine. (2+5+3)

Short Essays: (Any – 3) **5 X 3 = 15 Marks**

3. Polio vaccines
4. Laboratory diagnosis of M. tuberculosis
5. Laboratory diagnosis of HIV
6. Replication of virus

Very Short Essay: (All – 5) **3 X 5 = 15 Marks**

7. Ig M Antibody
8. Uses of hot air oven
9. Enumerate the infections caused by streptococci
10. Dermatophytes
11. Write three examples for dimorphic fungi

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SECOND YEAR (REVISED)
PAPER II - (Pharmacology)
QP CODE: 82210

Long Questions: (Any – 2)

10 X 2 = 20 Marks

1. Describe the various routes of drug administration. Enumerate the advantages and disadvantages of Intravenous route of drug administration.
2. Classify anti cholinergic drugs. Explain therapeutic uses and adverse effects of atropine.
3. Classify drugs used in Parkinsonism. Describe the pharmacological actions, adverse effects of Levodopa.

Short Essays: (Any - 6)

5 X 6 = 30 Marks

4. Explain order of kinetics of Elimination with suitable examples.
5. Describe the Mechanism of action and adverse effects of Digoxin.
6. Pharmacotherapy of Status Asthmaticus.
7. Describe the mechanism of action and therapeutic uses of Sodium valproate.
8. Enumerate the therapeutic uses and adverse effects of Pencillin G.
9. Describe the mechanism of action and therapeutic uses of H₂ blockers.
10. Potassium Sparing Diuretics - therapeutic uses and adverse effects.
11. Enumerate therapeutic uses and adverse effects of glucocorticoids.

Short Answers

3 X 10 = 30 Marks

12. Name three prodrugs.
13. Explain the mechanism of action of Lignocaine and two therapeutic uses.
14. Write three therapeutic uses of anabolic steroids.
15. Mention three uses of Heparin.
16. Name three drugs used in gout.
17. Mention three antidepressants.
18. Mention two uses and two adverse effects of immunosuppressants.
19. Name three second generation H₁ anti-histaminics.
20. Explain first dose phenomenon and measures to prevent it.
21. Name 3 oral Anti diabetic drugs.

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SECOND YEAR (REVISED)
PAPER III - (Exercise Therapy)
QP CODE: 82220

Long Questions: (Any – 2)

10 X 2 = 20 Marks

1. Describe classification of active movements. Write in brief about type of active movement.
2. Write an essay on physiology and components of balance
3. Explain the principles of suspension therapy and write the suspension therapy technique for hip internal and external rotation movements.

Short Essays: (Any - 6)

5 X 6 = 30 Marks

4. Define axillary crutch. Name the muscles required for crutch Gait.
5. Explain Jacobson's relaxation method.
6. Write the determinants of aerobic exercises. Give a note on circuit interval training in aerobic exercises.
7. Give a note on Pranayama and its uses.
8. Describe measurement of apparent limb length.
9. Explain briefly about BRIME and De Lormes.
10. List the types and uses of walking aids used for gait re-education
11. Frenkels exercise.

Short Answers

3 X 10 = 30 Marks

12. What is Ballistic stretching?
13. What is 10 RM?
14. Define passive range of motion and active range of motion.
15. 2 point gait.
16. Hold relax technique.
17. ACBT
18. Axial suspension.
19. Kaltenborn technique.
20. Benefits of home exercise.
21. Define coordination.

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SECOND YEAR (REVISED)
PAPER IV - (Electrotherapy)
QP CODE: 82230

Long Questions: (Any – 2)

10 X 2 = 20 Marks

1. Define faradic current. Explain the physiological and therapeutic effects faradic current.
2. Explain the production of Interferential currents; give the therapeutics and physiological effects of the same.
3. Describe the types, effects, merits, and demerits of ultraviolet radiation

Short Essays: (Any - 6)

5 X 6 = 30 Marks

4. Therapeutic uses of microwave diathermy
5. Principles and advantages of Ionotophoresis
6. Precautions and treatment of shock
7. Give indications and contraindications of IRR.
8. Explain the physiological effects of TENS and give a note on the indications for its use.
9. Describe the types of methods used for cryotherapy.
10. Spacing in shortwave diathermy
11. Explain the characteristics of the SD curve

Short Answers

3 X 10 = 30 Marks

12. Explain biofeedback and its types
13. What are electrical burns?
14. Define the term EMG.
15. Define Pain gate theory.
16. Define motor point
17. List four safety precautions taken in the electrotherapy department
18. Galvanism
19. Effects of fluidotherapy
20. Moist heat
21. Define beat frequency in interferential currents

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SECOND YEAR (REVISED)
PAPER IV - (Research Methodology Biostatistics & EBP)
QP CODE: 82240

Long Questions: (Any - 2)

10 X 2 = 20 Marks

1. Define Research. Explain the steps of case-control study
2. Define EBP. Write concept of evidence-based physiotherapy practice
3. Enumerate sampling techniques & explain cluster sampling.

Short Essays: (Any - 6)

5 X 6 = 30 Marks

4. Ethics in research
5. The reflective practitioner
6. Questionnaire and scales
7. Explain the need of research design
8. Sources of error in measurement
9. Computer application in research.
10. Measures of central tendency
11. Qualitative research methodology

Short Answers

3 X 10 = 30 Marks

12. What is hypothesis?
13. Type of data
14. Diagrammatic presentation of data
15. Measures of dispersion
16. Non parametric tests
17. Development of evidence-based knowledge
18. Measuring clinical outcomes
19. Conducting literature search
20. Levels of evidence in research
21. Evidence based communication