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02/7/2024

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

[Time: 3 Hours]

[Max. Marks: 80]

**II SEMESTER**

**PAPER - I (Anatomy - II)**

**QP CODE: 8220**

Your answer should be specific to the questions asked.

Write Question No. in left side of margin.

**Long Questions**

**10X1 = 10 Marks**

1. Describe hip joint under following headings- a) Type of joint b) Articular surfaces c) Ligaments  
d) Movements and muscles producing the movements d) Applied anatomy (1+1+3+4+1)

**Short Essays: (Any – 8)**

**5 X 8 = 40 Marks**

2. Blood supply of stomach.
3. Supports of uterus.
4. Gluteus maximus muscle- origin, insertion, nerve supply and action.
5. Describe the microscopic structure of duodenum.
6. Popliteal fossa- boundaries and contents.
7. Prostate gland-gross anatomy
8. Interior of anal canal.
9. Supra renal gland-gross anatomy
10. Lesser omentum.

**Short Answers: (Any – 10)**

**3 X 10 = 30 Marks**

11. Upper end of femur.
12. Draw a neat labelled diagram of histology of ovary.
13. Name the muscles which cause the dorsiflexion of foot
14. Enumerate the hamstrings.
15. Enumerate the branches of femoral artery.
16. Anterior relations of right kidney.
17. Appendix – various positions.
18. Porta hepatis.
19. Spermatic cord.
20. Popliteus muscle- origin, insertion, action.
21. Sciatic nerve- root value, terminal branches.

July - 2024.

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**II SEMESTER**  
**PAPER - II (Physiology - II)**  
**QP CODE: 8221**

Your answer should be specific to the questions asked.

Write Question No. in left side of margin.

**Long Questions**

**10X1 = 10 Marks**

1. With the help of a neat & labeled diagram, discuss about visual pathway. Add a note on effects of lesions at various levels of brain on vision

**Short Essays: (Any – 8)**

**5 X 8 = 40 Marks**

2. Errors of refraction & their corrections
3. What is synapse? Give its classification. Discuss about the transmission of a nerve impulse across it
4. What is a reflex? Give its classification. Add a note on reflex arc
5. What is a receptor? Discuss about its properties
6. Actions & Regulation of secretion of growth hormone
7. Actions & Regulation of secretion of thyroid hormone
8. Ovulation : Definition & Tests to detect it
9. Spermatogenesis: Definition, Diagram, Stages & Factors influencing it
10. Juxtaglomerular apparatus: Definition, Diagram, Description & Functions

**Short Answers: (Any – 10)**

**3 X 10 = 30 Marks**

11. Tests for hearing
12. Contents & functions of middle ear
13. Tests for visual acuity
14. Define the following terms a) Synaptic inhibition b) Synaptic habituation c) Synaptic facilitation
15. Draw a diagram to depict circulation of cerebrospinal fluid
16. List the features of diabetes mellitus
17. List the hormones that influence on serum calcium levels
18. List the changes that occur during puberty in male & female individuals
19. Temporary methods of contraception in an adult male & female individuals
20. Draw a neat & labeled diagram of a nephron
21. Define glomerular filtration rate? List the factors influencing it

6/7/24

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**BACHELOR OF PHYSIOTHERAPY**

[Time: 3 Hours]

[Max. Marks: 80]

**II SEMESTER**  
**PAPER - III (Biochemistry - II)**  
**QP CODE: 8222**

Your answer should be specific to the questions asked.

Write Question No. in left side of margin.

**Long Questions**

**10X1 = 10 Marks**

1. Describe the structure of DNA and add a note on the biological functions of DNA.

**Short Essays: (Any – 8)**

**5 X 8 = 40 Marks**

2. Give the details of immunoglobulin structure with a neat labelled diagram.
3. Write a note on balanced diet.
4. Write a note on modes of transmission of the HIV virus.
5. Define Dietary Fibers and write a note on its biological significance.
6. Discuss the tests to assess the Liver functions.
7. What are acute phase proteins? Add a note on negative and positive acute phase proteins.
8. Give the Sources, RDA and functions (In Brief) and deficiency manifestations of Iron.
9. What is multiple myeloma and give the plasma electrophoretic pattern seen in this condition.
10. Define jaundice and add a note on the different types of jaundice.

**Short Answers: (Any – 10)**

**3 X 10 = 30 Marks**

11. What is SDA (Specific Dynamic Action) of food?
12. Give the reference ranges for: serum urea, serum creatinine and Glomerular Filtration Rate (GFR).
13. What are the clinical manifestations of fluorosis?
14. Give the biological functions of copper.
15. Give the sources and RDA of calcium.
16. Give the biological reference interval for T3, T4 and TSH hormones.
17. Biological functions of selenium.
18. Define codon.
19. Define respiratory quotient (RQ).
20. Define balanced diet.
21. What is Chargaff's base pairing rule?

July 2024.

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**II SEMESTER**

**PAPER - IV (Kinesiotherapy - II)**

**QP CODE: 8223**

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

**Long Questions**

**10X1 = 10 Marks**

1. Define Gait? Explain in detail about phases of the gait cycle.

**Short Essays: (Any – 8)**

**5 X 8 = 40 Marks**

2. Explain lumbopelvic rhythm.
3. Describe the screw home mechanism of the knee joint.
4. Explain the sagittal plane analysis of posture.
5. Explain the kinetics and kinematics of the ankle joint.
6. Pes planus and Pes cavus.
7. Physiological factors affecting posture.
8. Explain foot supination and pronation.
9. Explain structure of knee joint with neat diagram.
10. Importance of acetabular labrum and write the peculiar features of it.

**Short Answers: (Any – 10)**

**3 X 10 = 30 Marks**

11. Name the ligament of the knee joint.
12. Define kinetics and kinematics.
13. Define goniometry.
14. Write about circumduction gait.
15. Functions of subtalar joint.
16. Write any 3 abnormal postures and explain them.
17. Explain tibial torsion.
18. Knee joint pathology.
19. What are spurt and shunt muscles?
20. Squinting of patella.
21. Explain coxa varum and coxa valgum?