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BLDE (DEEMED TO BE UNIVERSITY)

B.Sc. Allied Health Sciences

[Time: 3 Hours]

[Max. Marks: 80]

I SEMESTER

PAPER - II (Physiology- I)

QP CODE: (8126, 8131, 8136, 8141, 8146, 8151, 8156, 8161, 8166, 8171)

Your answer should be specific to the questions asked.

Write Question No. in left side of margin.

Long Questions

10X1 = 10 Marks

1. Define Cardiac Output. Write its normal value. Explain the factors regulating cardiac output.

(2+2+6)

Short Essays: (Any – 8)

5 X 8 = 40 Marks

2. Define deglutition. Name stages of deglutition. Explain in detail about the 2nd stage of deglutition.
3. Define ECG with a neat, labelled diagram and explain the different waves.
4. Describe different blood groups and discuss the clinical importance of blood grouping.
5. What is myasthenia gravis? Mention its clinical features.
6. Classify WBCs with a diagram. Mention the functions of WBCs.
7. Write the composition of Saliva. List the functions of salivary juice.
8. Write the differences between diffusion & osmosis
9. Write the differences between skeletal muscle and cardiac muscle.
10. With a neatly labelled diagram, explain the conducting system of the heart.

Short Answers: (Any – 10)

3 X 10 = 30 Marks

11. Write the composition of Pancreatic juice and mention the functions
12. Define stroke volume. Give its normal value
13. Draw a neat, labelled diagram of the neuron
14. Draw and label strength-duration curve
15. Functions of plasma proteins
16. Define and classify Immunity
17. Functions of Gastric Juice.
18. Define jaundice and classify it.
19. Classify Hypoxia.
20. All are none law
21. Define vital capacity. Write the normal value.

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I SEMESTER

PAPER - III (Biochemistry- I)

QP CODE: (8127, 8132, 8137, 8142, 8147, 8152, 8157, 8162, 8167, 8172)

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 and composition of the cell membrane. Explain the Fluid Mosaic Model and discuss its significance.

Short Essays: (Any – 8)

5 X 8 = 40 Marks

2. Define enzymes and describe their properties.
3. Define and classify vitamins with suitable examples.
4. Describe the functions and deficiency manifestations of Vitamin C.
5. Define cofactors and coenzymes. Explain their role with examples.
6. Discuss the factors affecting enzyme activity.
7. Describe the functions and deficiency manifestations of thiamine.
8. What are essential fatty acids? Explain their importance.
9. Describe in detail the functions of proteins.
10. Write a note on polysaccharides with examples.

Short Answers: (Any – 10)

3 X 10 = 30 Marks

11. Explain the Lock and Key model of enzyme action.
12. Write a short note on protein denaturation.
13. Why is calcitriol considered a hormone?
14. Name the non-reducing disaccharide and explain why it is non-reducing.
15. Define enzyme inhibition and mention its types.
16. Define essential amino acids. Name them.
17. Write the functions of folic acid.
18. List the important functions of the nucleus.
19. Write a short note on ribosomes.
20. Differentiate between facilitated diffusion and active transport.
21. Write a short note on Pellagra.

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I SEMESTER

PAPER - IV (National Health Care System)

QP CODE: (8128, 8133, 8138, 8143, 8148, 8153, 8163, 8168, 8173)

Your answer should be specific to the questions asked.

Write Question No. in left side of margin.

Long Questions

10X1 = 10 Marks

1. Define Primary Health Care. Explain the principles of primary health care with examples.

Short Essays: (Any – 8)

5 X 8 = 40 Marks

2. Enlist the functions of ANM worker.
3. What is Tridosha theory of Ayurveda?
4. Write a note on relation between prevalence and incidence.
5. What are Primary care services for the adolescents?
6. Enumerate the risk factors for Non-communicable Diseases.
7. Explain briefly about preparation of ORS and its uses.
8. What are the universal precautionary measures for AIDS?
9. Describe census & its impact on health policy.
10. Explain the steps of case control study.

Short Answers: (Any – 10)

3 X 10 = 30 Marks

11. Write three preventions for Heat Stress.
12. Write 3 causes of blindness in India?
13. Write 3 danger signs of cancer.
14. Name 3 Modes of disease Transmission.
15. Write 3 preventive strategies for dengue.
16. Name 3 preventive strategies for AIDS.
17. Name 3 Vaccines given under UIP.
18. Mention the Indian Systems of Medicine
19. List the 3 elements of cold chain.
20. Mention the types of surveillance.
21. What are the advantages of 'breastfeeding'?

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II SEMESTER

PAPER - I (Anatomy - II)

QP CODE: (8225, 8230, 8235, 8240, 8245, 8250, 8255, 8260, 8265, 8270)

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 Gross Anatomy of Uterus under the following headings
a) Location b) External features c) Supports d) blood supply

Short Essays: (Any – 8)

5 X 8 = 40 Marks

2. Extra hepatic biliary apparatus.
3. Anal Canal-gross anatomy.
4. Spleen –gross anatomy
5. Coverings and relations of right kidney.
6. Hip joint- type, articular surfaces, movements with muscles.
7. Popliteal fossa-boundaries and contents.
8. Gluteus Maximus- origin, insertion, nerve supply and action.
9. Femoral triangle- boundaries and contents.
10. Histology of ureter.

Short Answers: (Any – 10)

3 X 10 = 30 Marks

11. Coverings of Testis.
12. Parts of fallopian tube-diagram.
13. Sartorius muscle.
14. Histology of fundus of stomach.
15. Enumerate cardinal features of large intestine.
16. Enumerate the contents of spermatic cord.
17. Epiploic foremen-boundaries
18. Medial longitudinal arch of foot- bones forming.
19. Enumerate the muscles supplied by deep peroneal nerve.
20. Great saphenous vein- formation, tributaries.
21. Enumerate the tarsal bones.

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II SEMESTER

PAPER - II (Physiology - II)

QP CODE: (8226, 8231, 8236, 8241, 8246, 8251, 8256, 8261, 8266, 8271, 8281)

Your answer should be specific to the questions asked.

Write Question No. in left side of margin.

Long Questions

10X1 = 10 Marks

1. Define Menstrual Cycle. Describe the different phases of menstrual cycle.

Short Essays: (Any – 8)

5 X 8 = 40 Marks

2. What is Juxta glomerular (JG) apparatus? Give its components and functions
3. Describe the various contraceptive methods.
4. Define and classify reflexes.
5. Describe the Synthesis regulation and functions of thyroid hormones.
6. Describe briefly the reabsorption of various substances in the renal tubules.
7. Describe Spermatogenesis.
8. Describe the functions of hypothalamus.
9. Describe the structure and function of middle ear.
10. With a neat labelled diagram explain the errors of refraction and their correction.

Short Answers: (Any – 10)

3 X 10 = 30 Marks

11. Test for Ovulation.
12. Draw a neat labelled diagram of a nephron.
13. What is Dwarfism and Cretinism?
14. Describe the functions of CSF.
15. Myopia and hypermetropia.
16. Write three processes by which heat is lost from the body.
17. Define: Oliguria, Polyuria, and Anuria.
18. Diabetes mellitus.
19. Draw reflex arc and label its components.
20. Acromegaly
21. Functions of the kidney.

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II SEMESTER

PAPER - III (Biochemistry - II)

QP CODE: (8227, 8232, 8237, 8242, 8247, 8252, 8257, 8262, 8267, 8272)

Your answer should be specific to the questions asked.

Write Question No. in left side of margin.

Long Questions

10X1 = 10 Marks

1. With neat diagram, explain the structure, types and functions of immunoglobulins.

Short Essays: (Any – 8)

5 X 8 = 40 Marks

2. What is BMR explain the factor influencing BMR.
3. What are plasma protein, Different types and their functions?
4. Electrophoresis of plasma proteins and its clinical significance.
5. Describe nitrogen balance and its clinical significance.
6. Daily requirement and functions of calcium.
7. Functions of copper.
8. Short note on Balance diet.
9. Liver function Test with their Normal ranges
10. State the biomedical functions of zinc in the body.

Short Answers: (Any – 10)

3 X 10 = 30 Marks

11. Difference between plasma and serum.
12. Hemosiderosis.
13. Functions of Phosphorous.
14. Diagnostic Test for AIDS.
15. Functions of Magnesium.
16. Tetany.
17. Short note on Multiple myeloma.
18. Renal function test.
19. Dehydration.
20. Clinical significance of Albumin to Globulin ratio.
21. Normal ranges of Sodium, Potassium, Chloride, calcium and phosphorus.

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II SEMESTER

PAPER - IV (General Microbiology)

QP CODE: (8228, 8233, 8238, 8243, 8248, 8253, 8258, 8263, 8268, 8273)

Your answer should be specific to the questions asked.

Write Question No. in left side of margin.

Long Questions

10X1 = 10 Marks

1. Describe Morphology, Pathogenesis and Laboratory diagnosis of Staphylococcus aureus

Short Essays: (Any – 8)

5 X 8 = 40 Marks

2. Bacterial Spores
3. ELISA
4. Autoclave
5. Hypersensitivity reaction type I
6. Biomedical waste management
7. Laboratory diagnosis of viruses
8. Laboratory diagnosis of urinary tract infection
9. Laboratory diagnosis of HIV infection
10. Laboratory diagnosis of malaria

Short Answers: (Any – 10)

3 X 10 = 30 Marks

11. Draw labeled diagram of IgM
12. Difference between Exotoxin and Endotoxin
13. Enriched media
14. Enumerate three capsulated organisms
15. Enumerate Antigen-Antibody reactions
16. Morphology of Streptococci pneumoniae
17. Draw labeled diagram of trophozoite of Entamoeba histolytica
18. Name the infections caused by candida albicans
19. Name the fungi causing skin disease
20. Hospital acquired Infections-definition and examples
21. Universal precautions

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II SEMESTER

PAPER - V (Basic Pathology & Hematology)

QP CODE: (8229, 8234, 8239, 8244, 8249, 8254, 8259, 8264, 8269, 8274)

Your answer should be specific to the questions asked.

Write Question No. in left side of margin.

Long Questions

10X1 = 10 Marks

1. What is tuberculosis? How does it spread? Which organism causes it? Write down the symptoms, types, and pathogenesis and laboratory diagnosis of tuberculosis. (1+1+1+1+2+2+2)

Short Essays: (Any – 8)

5 X 8 = 40 Marks

2. List different vacutainers along with the anticoagulant used and tests done
3. Order of draw
4. Chemical examination of urine- name of tests, procedure and interpretation of results
5. Explain the preparation and procedure of fine needle aspiration
6. List five differences between benign and malignant neoplasms
7. Define necrosis and apoptosis. List two differences between necrosis and apoptosis
8. Write peripheral smear finding in Iron deficiency anemia with neat diagram
9. Biomedical waste management- segregation, color coding and disposal
10. List five eligibility criteria for blood donor selection

Short Answers: (Any – 10)

3 X 10 = 30 Marks

11. List any three stains used in cytology section of pathology
12. Write normal range of urine pH, specific gravity and urine volume
13. Write any three causes for increased ESR
14. List any three types of shock
15. Name any three fixatives used in pathology laboratory
16. List any three steps of histopathology processing
17. Name the four species of malaria
18. Write modes of HIV transmission
19. Name any three transfusion transmitted diseases
20. Name any three types of embolism
21. Write components of Virchow triad