

BSc-11

JAN-2024

BLDE (DEEMED TO BE UNIVERSITY)

B.Sc. Allied Health Sciences

[Time: 3 Hours]

[Max. Marks: 80]

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 hip joint under following headings-a) Type of joint b) articular surfaces c) ligaments d) movements and muscles producing the movements. (1+2+3+4)

Short Essays: (Any – 8)

5 X 8 = 40 Marks

2. Describe the portal vein and sites of Porto- Caval anastomosis.
3. Describe the microscopic structure of kidney.
4. Describe parts, ligaments and relations of uterus.
5. Popliteal fossa-boundaries and contents.
6. Inguinal group of lymph nodes.
7. Gross features of stomach.
8. Explain about Hamstring muscles.
9. Gross anatomy of urinary bladder.
10. Spermatic cord.

Short Answers: (Any – 10)

3 X 10 = 30 Marks

11. Draw a neat labelled diagram of histology of thyroid gland.
12. Name the parts of fallopian tube.
13. Name the muscles supplied by common personal nerve.
14. Gluteus maximus muscle.
15. Epiploic foramen.
16. Branches of Abdominal Aorta.
17. Porta hepatis.
18. Appendix – various positions.
19. Clinical importance of spleen.
20. Name the tarsal bones.
21. Name the muscles of anterior compartment of thigh.

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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 a receptor. Discuss about its properties

(2+8)

Short Essays: (Any – 8)

5 X 8 = 40 Marks

2. Discuss about renal tubular handling of glucose

3. Discuss about renal tubular reabsorption of water

4. Cystometrogram

5. Functions of Hypothalamus

6. Errors of refraction & their correction

7. Organ of Corti

8. Regulation of secretion of growth hormone

9. Spermatogenesis

10. Tests to detect ovulation

Short Answers: (Any – 10)

3 X 10 = 30 Marks

11. What is Glomerular Filtration Rate? What is its normal value? Mention the factors influencing it

12. List the peculiarities of renal blood flow

13. How does the body defend when a person is exposed to very cold/very high temperature?

14. List the tests to detect the integrity of parasympathetic division of autonomic nervous system

15. Draw a neat & labeled diagram to depict the flow of Cerebro Spinal Fluid

16. Visual Acuity: Definition & factors influencing it

17. Tests to detect deafness

18. Myxedema : Cause & Features

19. List the secondary sexual characteristics of a male individual

20. Oral Contraceptive Pill

21. List the functions of placenta

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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. Explain in detail about sources, RDA, absorption, biochemical functions of calcium. Add a note on regulation of blood calcium levels. (1+1+2+3+3)

Short Essays: (Any – 8)

5 X 8 = 40 Marks

2. Immunoglobulins
3. Lipoproteins; types, composition and functions
4. Structure and functions of DNA
5. Respiratory mechanisms of pH regulation
6. Absorption, transport and storage of iron in the body
7. Types and laboratory investigations in jaundice
8. Biomedical waste management
9. Lipid profile and its significance
10. Tumour markers

Short Answers: (Any – 10)

3 X 10 = 30 Marks

11. Acute phase proteins
12. Bence Jones Proteins
13. Structure and functions of t-RNA
14. What are buffers? Name different blood buffers
15. Fluorosis
16. Creatinine clearance test
17. What are normal ranges of RBS, FBS, and PPBS?
18. CK-MB & LDH
19. POCT
20. What are growth factors? Give examples.
21. Functions and deficiency manifestation of Iodine

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II SEMESTER

PAPER – IV (GENERAL MICROBIOLOGY)

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

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, mode of transmission and laboratory diagnosis of HIV infection.

Short Essays: (Any – 8)

5 X 8 = 40 Marks

2. Bacterial capsule
3. IgM
4. Autoclave
5. Candidiasis
6. Standard (universal) Precautions
7. Antibiotic Sensitivity testing
8. Vibrio cholera
9. Difference between active and passive immunity
10. Bacterial Growth curve

Short Answers: (Any – 10)

3 X 10 = 30 Marks

11. Name three Gram Negative bacilli
12. Koch Postulates
13. Types of vaccine
14. Enriched media
15. Exotoxin
16. Name three anaerobic bacteria
17. Name three organism causing zoonotic diseases
18. Name various Antigen –Antibody reaction
19. Define infection and mention its type
20. Name the fungi causing eye infection
21. Name three RNA Viruses

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II SEMESTER

PAPER – V (BASIC PATHOLOGY & HEMATOLOGY)

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

Your answer should be specific to the questions asked.

Write Question No. in left side of margin.

Long Questions

10X1 = 10 Marks

1. Name the various methods of collection of urine. Explain in detail the physical examination of Urine.

Short Essays: (Any – 8)

5 X 8 = 40 Marks

2. Types of Blood Groups & Methods of blood grouping
3. List and describe the instruments used in hematology
4. Collection & Processing of body Fluids
5. Define Allergy. Write its causes & Clinical Features
6. Steps in tissue Processing
7. Discuss aims and effects of fixation. Add a note on formalin fixative
8. Protocol to be followed after needle stick Injury
9. Colour coding of biomedical Waste
10. Modes of Transmission of Hepatitis B

Short Answers: (Any – 10)

3 X 10 = 30 Marks

11. Write few causes of cell injury
12. Write few causes of neutrophilia
13. What is Thrombocytopenia? Write its few causes
14. Write three differences between transudate and exudate
15. List the blood transfusion reactions
16. Name the anticoagulants used in hematology
17. Methods of decalcification
18. LIMS(Laboratory Information system)
19. Write three differences between Benign and Malignant tumors
20. Define Shock. Write its types
21. Write the Confirmatory test for AIDS

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II SEMESTER
PAPER – IV (FORENSIC SCIENCE & CRIMINALISTICS – II)
QP CODE: 8258

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

Long Questions

10X1 = 10 Marks

1. Write in details about history, development and scope of Forensic Sciences. (5+5)

Short Essays: (Any – 8)

5 X 8 = 40 Marks

2. Focus of Criminalistics.
3. Essential elements of crime scene investigation.
4. What evidence should be collected first at the crime scene?
5. Three types of evidence.
6. Forensic paint analysis.
7. How are fibers used in Forensic Science?
8. Dactylography.
9. Viscera preservation.
10. Collection and packaging of blood samples from crime scene.

Short Answers: (Any – 10)

3 X 10 = 30 Marks

11. Types of fibers.
12. What is the another word for criminalistics.
13. Define Criminalistics.
14. Which evidence is most useful?
15. Functions of Mobile Forensic units.
16. Report of writing.
17. Dermal nitrate test.
18. Criminalistics examination.
19. Name the branches of Forensic sciences.
20. Locards principles of exchange.
21. In which cities of Karnataka FSLs are located.