

**B.SC. MLTC, RADIOGRAPHY, ANAESTHESIA, PERFUSION, CARDIAC CARE,
NEUROSCIENCE, RENAL DIALYSIS AND OPTOMETRY
II SEMESTER – SEPTEMBER 2021**

Time: 3 Hours

Max. Marks: 60

HUMAN ANATOMY -II

Q.P. Code:1906

Answers should be specific to the Questions asked.
Draw neat, labeled diagrams wherever necessary.

Question Number	Marks
LONG ESSAY QUESTIONS(Answer any TWO):	2 X 10 = 20
1. Describe the stomach under the following headings: a) External features b) Relations of stomach c) Blood supply d) Applied anatomy	(3+2+2+3)
2. Describe kidney under the following headings: a) External features b) Relations c) Blood supply d) Applied anatomy	(3+3+2+2)
3. Describe Pancreas under the following headings: a) External features b) Relations c) Blood Supply d) Applied anatomy	(3+3+2+2)
SHORT ESSAY QUESTIONS (Answer any Five):	5 X 5= 25
4. Parathyroid glands. 5. Sub mandibular gland. 6. Testis. 7. Urethra. 8. Suprarenal gland. 9. Cervix. 10. Histology of oesophagus.	
SHORT ANSWER QUESTIONS(All are compulsory):	5 X 3 = 15
11. Interior of urinary bladder. 12. Mention any three ligaments of liver. 13. Name the hormones produced by thyroid gland. 14. Name the parts of uterine tube. 15. Mention structure forming Extrahepatic biliary apparatus.	

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Time: 3 Hours

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HUMAN PHYSIOLOGY-II AND BASICS OF BIOCHEMISTRY- II

Answers should be specific to the Questions asked.

Draw neat, labeled diagrams wherever necessary.

Use separate answer books for Section A and Section B

SECTION A :HUMAN PHYSIOLOGY-II Q.P. CODE : 1907[30 Marks]

Question Number **Marks**

LONG ESSAY QUESTIONS (Answer any ONE): **1 X 10 = 10**

1. Define blood pressure & give its normal value. Discuss the short-term regulation of blood pressure. Add a note on Hypertension. (2+7+2)
2. Give the composition and functions of bile juice. Add a note on Jaundice. (4+3+3)

SHORT ESSAY QUESTIONS (Answer any TWO): **2 X 5 = 10**

3. Explain oxygen Hb dissociation curve & mention factors affecting it. (3+2)
4. Micturition reflex.
5. Discuss action of oxytocin

SHORT ANSWER QUESTIONS (All are compulsory): **5 X 2 = 10**

6. Endocrine functions of testis.
7. Functions of the placenta.
8. Composition & functions of surfactant.
9. Name all the lung volume & capacities & give their normal value.
10. Name all salivary glands. Write functions of saliva

SECTION B :BASICS OF BIOCHEMISTRY - II...Q.P. CODE : 1908 [30 Marks]

Question Number **Marks**

LONG ESSAY QUESTIONS (Answer any ONE): **1 X 10 = 10**

1. Define enzymes. Classify enzymes according to IUBMB classification. Describe the factors affecting enzyme activity.
2. Describe the sources, RDA, functions and deficiency manifestation of Vitamin D. (1+1+4+4)

SHORT ESSAY QUESTIONS (Answer any TWO): **2 X 5 = 10**

3. Explain the digestion and absorption of proteins in our body.
4. Define BMR. Name the factors affecting BMR.
5. Explain the metabolism of glucose to pyruvate.

SHORT ANSWER QUESTIONS (All are compulsory): **5 X 2 = 10**

6. Define transamination. Give one example.
7. Describe the biochemical functions of selenium in the body.
8. Explain the significance of dietary fibre.
9. Write the normal levels of a. Calcium b. Phosphorus
10. Define isoenzymes. Give examples.

B.SC. MLTC, RADIOGRAPHY, ANAESTHESIA, PERFUSION, CARDIAC CARE, NEUROSCIENCE, RENAL DIALYSIS AND OPTOMETRYII
SEMESTER – II SEMESTER – SEPTEMBER 2021

Time: 3 Hours

Max. Marks: 60

HAEMATOLOGY & CLINICAL PATHOLOGY- AND MICROBIOLOGY -II

Answers should be specific to the Questions asked.

Draw neat, labeled diagrams wherever necessary.

Use separate answer books for Section A and Section B

SECTION A : HAEMATOLOGY & CLINICAL PATHOLOGY Q.P. CODE : 1909 [30 Marks]

Question Number

Marks

LONG ESSAY QUESTIONS (Answer any ONE):

1 X 10 = 10

1. Discuss semen analysis.
2. Define and classify anemia. Describe the laboratory tests for diagnosis of sickle cell anemia.

SHORT ESSAY QUESTIONS (Answer any TWO):

2 X 5 = 10

3. Discuss briefly about microscopic examination of urine.
4. Laboratory test for diagnosis for G-6-PD deficiency.
5. Discuss test for urine proteins.

SHORT ANSWER QUESTIONS (All are compulsory):

5 X 2 = 10

6. Benzidine test.
7. Oliguria
8. Normal values of sr. iron and total iron binding capacity.
9. What is Bence Jones protein? How do you demonstrate them
10. Uses of buffer coat smears.

SECTION B : MICROBIOLOGY -II...Q.P. CODE : 1910 [30 Marks]

Question Number

Marks

LONG ESSAY QUESTIONS (Answer any ONE):

1 X 10 = 10

1. Classify bacterial culture media. Add a note on transport media with suitable examples. (3+7)
2. Define antigen – antibody reactions. Describe in detail agglutination reaction with examples & diagnosis applications. (2+2+4)

SHORT ESSAY QUESTIONS (Answer any TWO):

2 X 5 = 10

3. Describe selective media with **four** examples.
4. Discuss innate immunity.
5. Write the structure and functions of IgG.

SHORT ANSWER QUESTIONS (All are compulsory):

5 X 2 = 10

6. What is supra antigen?
7. Explain enriched media with **two** examples
8. What is herd immunity?
9. Write **two** functions of compliment system.
10. Write the basic components of bacterial culture media.
