

DEPARTMENT OF BIOCHEMISTRY
GOVT. MEDICAL COLLEGE, BHAVNAGAR

Calculation of Internal Marks

Theory Internal (out of 20)		Practical Internal (out of 20)	
MCQ TEST	Out of 5	Best of two terminal exams	Out of 10
Best of two terminal exams	Out of 5		
Preliminary exam	Out of 10	Preliminary exam	Out of 10

Pattern of Internal Exam

Terminal exam	Theory(50 Marks)	Practical(50 Marks)
I st	MCQ(25marks) & Subjective(25marks) from the course till the date of exam	Exercise A , B & C 1 Viva Journal
II nd	MCQ(25marks) & Subjective(25marks) from the course till the date of exam	Exercise A ,B & C 1 Viva Journal

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Syllabus & Pattern of Preliminary and University Exams

Theory(100 Marks)	Practical(100 Marks)
<p>Biochemistry Paper-I</p> <p>Section -A</p> <ul style="list-style-type: none"> ➤ Cell and Cell Organelles and transport ➤ Chemistry of Carbohydrate ➤ Chemistry of Proteins, Amino acids, Plasma proteins, ➤ Immunochemistry ➤ Haemoglobin & its Derivatives ➤ Chemistry of Lipids, fatty acids ➤ All Vitamins ➤ Energy metabolism & Nutrition <p>Section -B</p> <ul style="list-style-type: none"> ➤ Enzymes & clinical Enzymology ➤ Chemistry of Nucleotide ➤ Heamoglobinopathies ➤ Plasma Proteins ➤ All Minerals ➤ Acid Base balance and disorders ➤ Molecular biology <p>Section -C</p> <ul style="list-style-type: none"> ➤ Genetic Engineering and application in medicine. and Laboratory techniques. ➤ Function tests ➤ Hormones & Growth factor 	<ul style="list-style-type: none"> ➤ Qualitative test of carbohydrate, protein, ➤ Chemistry of Bile & CSF ➤ Chemistry of normal and abnormal urine ➤ Quantitative analysis of glucose, urea , creatinine, total protein, albumin, SGPT, SGOT, total cholesterol, triglyceride, Calcium, phosphorus, HDL, LDL, ➤ Spectrophotometer, colorimeter, electrophoresis, chromatography, ELISA, ABG analyzer, Electrolyte analysis by ISE method, Auto Analyzers, Immunodiffusion, Quality Control, DNA isolation from tissues/blood
<p>Biochemistry Paper-II</p> <p>Section -A</p> <ul style="list-style-type: none"> ➤ Digestion, absorption and transport of nutrients (carbohydrates, protein, Amino acids, Lipid, Fatty acids, Nucleic acid). ➤ Integration of various aspects of metabolism and their regulatory pathways ➤ Biochemical basis of inherited disorder and their associated squeal 	<ul style="list-style-type: none"> ➤ Qualitative test of carbohydrate, protein, ➤ Chemistry of Bile & CSF ➤ Chemistry of normal and abnormal urine ➤ Quantitative analysis of glucose, urea , creatinine, total protein, albumin, SGPT, SGOT, total cholesterol, triglyceride, Calcium,

<p>and disorders of malnutrition</p> <ul style="list-style-type: none"> ➤ Disorders associated with vitamins and minerals. <p>Section -B</p> <ul style="list-style-type: none"> ➤ Metabolism & disorders of carbohydrates, lipids, Fatty acids, Amino acids, nucleic acid, plasma protein, Hb synthesis & its disorders Jaundice, Anaemia. ➤ Biological oxidation ➤ Various phases of Biotransformation of Xenobiotics ➤ Mechanisms involved in maintenance of body fluid and pH homeostasis <p>Section -C</p> <ul style="list-style-type: none"> ➤ Biochemical basis of environmental health hazards , biochemical basis of cancer, oncogenes, oncogenesis, Mutagens, Tumour Markers and carcinogenesis ➤ Clinical cases from whole syllabus 	<p>phosphorus, HDL, LDL Spectrophotometer, colorimeter, electrophoresis, chromatography, ELISA, ABG analyzer, Electrolyte analysis by ISE method, Auto Analyzers, Immunodiffusion, Quality Control, DNA isolation from tissues/blood</p>
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**DEPARTMENT OF BIOCHEMISTRY
GOVT. MEDICAL COLLEGE, BHAVNAGAR
PRELIMINARY EXAMINATION; Ist MBBS, Batch-2019-20**

BIOCHEMISTRY PAPER-I

NOTE - I. Write each section in separate answer book.
II. Draw diagram where necessary.

Date:

Time: 3 Hours

Total Marks- 100

SECTION-I

- | | |
|-----------------------------------|----------------|
| Q1. Short Answer -Question | 10×2=20 |
| All Portions | |
| Q2. Describe any three | 3×4=12 |
| Section B and C | |
| Q3. Short notes on any six | 6×3=18 |
| Section A/B | |

SECTION-II

- | | |
|-----------------------------------|----------------|
| Q4. Short Answer -Question | 10×2=20 |
| All Portions | |
| Q5. Describe any three | 3×4=12 |
| Section B and C | |
| Q6. Short notes on any six | 6×3=18 |
| Section A/B | |

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BIOCHEMISTRY PAPER-II

NOTE - I. Write each section in separate answer book.
II. Draw diagram where necessary.

Date:

Time: 3 Hours

Total Marks- 100

SECTION-I

Q1. Short Answer -Question

10×2=20

All Portions

Q2 Describe any three

3×4=12

Section B and C

Q3. Short notes on any six

6×3=18

Section A/B

SECTION-II

Q4. Short Answer -Question

10×2=20

All Portions

Q5. One clinical case followed by short answer questions

6×2=12

Section A, B or C (From whole syllabus)

Q6. Short notes on any six

6×3=18

Section A/B

