1. Every student shall undergo a certified study extending over 4 ½ academic years divided into 9 semesters (of 6 months each) from the date of commencement of his date of completion of examination and followed by one year compulsory rotating internship. Each semester will consist of 120 teaching days of 8 hrs each college working time including one hour of lunch.

2. The period of 4 ½ (9 semester) years is divided into 3 phases as follows:

<table>
<thead>
<tr>
<th>Phase I</th>
<th>Phase II</th>
<th>Phase III</th>
</tr>
</thead>
<tbody>
<tr>
<td>(2 semester)</td>
<td>(3 Semester)</td>
<td>(4 semester)</td>
</tr>
<tr>
<td>1 year</td>
<td>1 ½ Year</td>
<td>2 years</td>
</tr>
<tr>
<td>Anatomy (650 hrs Teaching)</td>
<td>Pathology (300 hrs Teaching)</td>
<td>General Medicine (300 hrs teaching)</td>
</tr>
<tr>
<td>Physiology including Biophysics (480 hrs teaching)</td>
<td>Pharmacology (300 hrs teaching)</td>
<td>Infectious disease</td>
</tr>
<tr>
<td>Biochemistry (240 hrs Teaching)</td>
<td>Microbiology (250 hrs teaching)</td>
<td>Paediatric (100 hrs teaching)</td>
</tr>
<tr>
<td>Introduction to Community Medicine (60 hrs Teaching)</td>
<td>Forensic Medicine including Toxicology (100 hrs teaching)</td>
<td>Tuberculosis and chest diseases (20hrs teaching)</td>
</tr>
<tr>
<td></td>
<td>Community Medicine (200 hrs teaching)</td>
<td>Skin &amp; STD (30 hrs teaching)</td>
</tr>
<tr>
<td></td>
<td>(including 8 weeks posting of 3 hrs each)</td>
<td>Psychiatry (20 hrs teaching</td>
</tr>
<tr>
<td></td>
<td>(Teaching of Para Clinical subjects shall be of 4 hrs per day in 3rd Semester and 3 hrs per day in 4th &amp; 5th semester)</td>
<td>Radio Diagnosis &amp; Radio Therapy (20 hrs teaching)</td>
</tr>
<tr>
<td></td>
<td>and Clinical subjects mentioned in Phase III</td>
<td>General Surgery (300 hrs teaching)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Orthopaedic Surgery including Physiotherapy and Rehabilitation (100 hrs teaching)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Ophthalmology (100 hrs teaching)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Otorhinolaryngology (70 hrs teaching)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Anaesthesia (20 hrs teaching)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Dentistry (10 hrs teaching)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Obstetrics and Gynaecology, Family Medicine, Family Welfare Planning (300 hrs teaching)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Community Medicine (50 hrs teaching)</td>
</tr>
</tbody>
</table>

1st Professional Exam Examination in Physiology, Biochemistry, Anatomy during 2nd Semester

2nd Professional Exam Examination in Pathology, Pharmacology, Microbiology, F.M.T., during 5th semester.

3rd Prof. Exam Part I during 7th Semester Examination in ophthalmology, otorhinolaryngology & community medicine

3rd Prof. Exam Part II during 9 semester Examination in Medicine, Surgery, Obst & Gynae and Paediatric
During third to ninth semesters, clinical postings of three hours duration daily as specified in the table below is suggested for various departments, after introductory course in Clinical methods in Medicine and surgery of two weeks each for the whole classes.

<table>
<thead>
<tr>
<th>Total Subjects</th>
<th>3rd semester weeks</th>
<th>4th semester weeks</th>
<th>5th semester weeks</th>
<th>6th semester weeks</th>
<th>7th semester weeks</th>
<th>8th semester weeks</th>
<th>9th semester weeks</th>
<th>Total weeks</th>
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<td>--</td>
<td>4</td>
<td>--</td>
<td>4</td>
<td>6</td>
<td>6</td>
<td>26</td>
</tr>
<tr>
<td>Paediatrics</td>
<td>--</td>
<td>2</td>
<td>--</td>
<td>2</td>
<td>2</td>
<td>4</td>
<td>--</td>
<td>10</td>
</tr>
<tr>
<td>T.B. &amp; Chest</td>
<td>--</td>
<td>2</td>
<td>--</td>
<td>--</td>
<td>--</td>
<td>--</td>
<td>--</td>
<td>02</td>
</tr>
<tr>
<td>Skin &amp; STD</td>
<td>--</td>
<td>2</td>
<td>--</td>
<td>2</td>
<td>--</td>
<td>2</td>
<td>--</td>
<td>06</td>
</tr>
<tr>
<td>Psychiatry</td>
<td>--</td>
<td>--</td>
<td>2</td>
<td>--</td>
<td>--</td>
<td>--</td>
<td>--</td>
<td>02</td>
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<tr>
<td>Radiology</td>
<td>--</td>
<td>--</td>
<td>--</td>
<td>2</td>
<td>--</td>
<td>--</td>
<td>--</td>
<td>02</td>
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<tr>
<td>Gen. Surgery</td>
<td>6</td>
<td>--</td>
<td>4</td>
<td>--</td>
<td>4</td>
<td>6</td>
<td>6</td>
<td>26</td>
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<tr>
<td>Orthopaedics</td>
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<td>4</td>
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<tr>
<td>Obst. &amp; Gynae</td>
<td>2</td>
<td>4</td>
<td>4</td>
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<td>4</td>
<td>4</td>
<td>6</td>
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<tr>
<td>Comm. Medicine</td>
<td>4</td>
<td>4</td>
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<td>4</td>
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<td>Casualty</td>
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<td>Dentistry</td>
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<td>--</td>
<td>--</td>
<td>2</td>
<td>--</td>
<td>--</td>
<td>02</td>
</tr>
<tr>
<td>Total in Weeks</td>
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<td>22</td>
<td>18</td>
<td>22</td>
<td>18</td>
<td>22</td>
<td>22</td>
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## Distribution of Marks to various Disciplines

<table>
<thead>
<tr>
<th>Subjects</th>
<th>Theory</th>
<th>Oral</th>
<th>Pract/</th>
<th>Int. Assessment</th>
<th>Tot M</th>
<th>Remarks</th>
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<tr>
<td></td>
<td>P I</td>
<td>P II</td>
<td>Clin.</td>
<td>The</td>
<td>Pra</td>
<td>Tot</td>
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<tr>
<td>Anatomy</td>
<td>50</td>
<td>50</td>
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<td>100</td>
<td>20</td>
<td>40</td>
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<tr>
<td>Biochemistry</td>
<td>50</td>
<td>50</td>
<td>100</td>
<td>20</td>
<td>40</td>
<td>20</td>
</tr>
<tr>
<td>Pathology</td>
<td>40</td>
<td>40</td>
<td>80</td>
<td>15</td>
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</tr>
<tr>
<td>Microbiology</td>
<td>40</td>
<td>40</td>
<td>80</td>
<td>15</td>
<td>25</td>
<td>15</td>
</tr>
<tr>
<td>Pharmacology</td>
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<td>40</td>
<td>80</td>
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</tr>
<tr>
<td>Forensic Medicine</td>
<td>40</td>
<td>--</td>
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<td>10</td>
</tr>
<tr>
<td>Ophthalmology</td>
<td>40</td>
<td>--</td>
<td>40</td>
<td>10</td>
<td>30</td>
<td>10</td>
</tr>
<tr>
<td>Otorhinolarygo</td>
<td>40</td>
<td>--</td>
<td>40</td>
<td>10</td>
<td>30</td>
<td>10</td>
</tr>
<tr>
<td>Comm. Medicine</td>
<td>60</td>
<td>60</td>
<td>120</td>
<td>10</td>
<td>30</td>
<td>20</td>
</tr>
<tr>
<td>Medicine</td>
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<td>60</td>
<td>120</td>
<td>20</td>
<td>100</td>
<td>30</td>
</tr>
<tr>
<td>Obst. &amp; Gynae</td>
<td>40</td>
<td>40</td>
<td>80</td>
<td>30</td>
<td>30</td>
<td>20</td>
</tr>
<tr>
<td>Paediatrics</td>
<td>40</td>
<td>--</td>
<td>40</td>
<td>10</td>
<td>30</td>
<td>10</td>
</tr>
</tbody>
</table>
Pass – In each of the subjects a candidate must obtain 50% in aggregate with a minimum of 50% in Theory including orals and minimum of 50% in Practical/Clinical.

1. No student shall be permitted to join the Phase II (Para-clinical) group of subjects until he has passed in all Phase I (Pre-Clinical) subjects for which he will be permitted not more than four chances (actual examination), provided four chances are completed in three years from the date of enrollment.

2. After passing pre-clinical subjects, 1 ½ years (3 semesters) shall be devoted to para-clinical subjects.

   Phase II will be devoted to para-clinical and clinical subjects, along with clinical postings. During clinical phase (Phase III) pre-clinical and para-clinical teaching will be integrated into the teaching of clinical subjects where relevant.

3. Didactic lectures should not exceed one third of the time schedule, two third schedule should include practicals, clinicals or/and group discussions. Learning process should include living experiences, problem oriented approach, case studies and community health care activities.

4. Universities shall organise admission timings and admission process in such a way that teaching in first semester starts by 1st of August each year.

5. Supplementary examination may be conducted within 6 months so that the students who pass can join the main batch and the failed students will have to appear in the subsequent year.

6. Passing in 1st Professional is compulsory before proceeding to phase II training.

7. A student who fails in the 2nd Professional examination, shall not be allowed to appear in 3rd Professional Part I examination unless he passes all subjects of 2nd Professional examination.

8. Passing in 3rd Professional (Part I) examination is not compulsory before entering for 8th and 9th semester training, however passing of 3rd professional (Part I) is compulsory for being eligible for 3rd Professional (Part II) examination.

EXAMINATION REGULATIONS

1. Attendance:

   75% of attendance in a subject for appearing in the examination is compulsory provided he/she has 80% attendance in non lecture teaching, i.e. seminars, group discussions, tutorials, demonstrations, practical, Hospital (Tertiary, Secondary, Primary) postings and bedside clinics, etc.

2. Internal Assessment:

   (i) It shall be based on day-to-day assessment (see note), evaluation of student assignment, preparation for seminar, clinical case presentation etc.

   (ii) Regular periodical examinations shall be conducted throughout the course. The question of number of examinations is left to the institution.

   (iii) Day-today records should be given importance during internal assessment.

   (iv) Weightage for the internal assessment shall be 20% of the total marks in each subject.

   (v) Students must secure at least 50% marks of the total marks fixed for internal assessment in a particular subject in order to be eligible to appear in final university examination of that subject.

NOTE : Internal assessment shall relate to different ways in which students participation in learning process during semesters is evaluated.
Some examples are as follows:

(i) Preparation of subject for students seminar.
(ii) Preparation of a clinical case for discussion.
(iii) Clinical case study/problem solving exercise.
(iv) Participation in Project for health care in the community (Planning state to evaluation)
(v) Proficiency in carrying out a practical or a skill in small research project.
(vi) Multiple choice questions (MCQ) test after completion of a system/teaching.

Each item tested shall be objectively assessed and recorded. Some of the items can be assigned as Home work/Vacation work.

3. University Examinations:

Theory papers will be prepared by the examiners as prescribed. Nature of questions will be short answer type/objective type and marks for each part indicated separately.

Practicals/clinicals will be conducted in the laboratories or hospital wards. Objective will be to assess proficiency in skills, conduct of experiment, interpretation of data and logical conclusion. Clinical cases should preferably include common diseases not esoteric syndromes or rare disorders. Emphasis should be on candidate’s capability in eliciting Physical signs and their interpretation.

Viva/oral includes evaluation of management approach and handling of emergencies. Candidate’s skill in interpretation of common investigative data, x-rays, identification of specimens, ECG, etc. also is to be evaluated.

The examinations are to be designed with a view to ascertain whether the candidate has acquired the necessary for knowledge, minimum skills alongwith clear concepts of the fundamentals which are competently. Evaluation will be carried out on an objective basis.

Question papers should preferably be of short structure/objective type.

Clinical cases/practicals shall take into account common diseases which the students is likely to come in contact in practice. Rare cases/obscure syndromes, long cases of neurology shall not be put for final examination.

There shall be one main examination in a year and a supplementary to be held not later than 6 months after the publication of its results.

Note: Results of all university examinations shall be declared before the start of teaching for next semester.
SYLLABUS
Biochemistry

Distribution of Marks:
- Written paper: 100 Marks
  (Paper I - 50, Paper II - 50)
- Oral: 20 Marks
- Practical: 40 Marks
- Internal Assessment: 40 Marks
  (Written - 20, Practical - 20)

Total: 200 Marks

Written Paper - Two
- Time allowed: 3 hours (for each Paper)
- Full Marks: 100 - (50 for each paper)

All questions for both the papers are to be set by a single external examiner preferably from outside the State.

Examiners:
There shall be four examiners - two external from outside the State preferably and two internal from within the State.

A candidate will be declared to have passed the examination in the subject provided he or she secures 50% in aggregate with a minimum of 50% of the total marks in written and oral, and 50% in practical.

A candidate will be declared to have passed the subject with honours provided he or she secures 75% or more marks of the total.

Questions should be objective type and short notes. Descriptive questions would be preferably avoided.

i) Paper I shall contain questions from the following topics –
- Cell Structure & membrane, Principles of Solution, Colloids, surface tension adsorption, hydrogen ion concentration, basic concept of radio active isotopes, Enzymes, chemistry of carbohydrates, lipids, proteins and nucleic acid, chemistry of blood and plasma, bile, milk, lymph, cerebrospinal fluids, urine, faeces, sweat, composition of tissues, biological oxidation reduction, acid-base balance, electrolytes, and water balance Vitamins.
- Immuno Chemistry Immunology & Auto immune diseases.

ii) Paper II shall contain questions from the following topics:
- Hormones, Digestion of food, metabolism of carbohydrates, proteins, lipids, nucleic acid and porphyrins; mineral metabolism, energy metabolism, detoxication, biochemical genetics and Inborn error of metabolism, liver function test, kidney function test, gastric function test, principals of nutrition and Malnutrition, Balance diets and diet in Pathological conditions, cancer and carcinogenesis, Biochemical investigations and their interpretation in health & Disease.

Books Recommended:
Theory:
2. Text Book of Biochemistry by A. S. Saini
3. Text Book of Biochemistry by A. V. S. S. Rama Rao
4. Agrawal’s Text Book of Biochemistry

Practical/Clinical:
1. Practical Manual of Biochemistry by S. P. Singh
2. Viva & Practical by A. C. Deb
Anatomy

Distribution of Marks:

- Written paper (Paper I - 50, Paper II - 50) - 100 Marks
- Oral - 20 Marks
- Practical - 40 Marks
- Internal Assessment (Written - 20, Practical - 20) - 40 Marks

Total: 200 Marks

Written Paper - Two

- Time allowed - 3 hours (for each Paper)
- Full Marks - 100 - (50 for each paper)

All questions for both the papers are to be set by a single external examiner preferably from outside the State.

Examiners:

There shall be four examiners- Two external from outside the state preferably and two internal from within the State.

A candidate will be declared to have passed the examination in the subject provided he or she secures 50% in aggregate with a minimum of 50% of the total marks in written and oral, and 50% in practical and internal assessment.

A candidate will be declared to have passed the subject with honours provided he or she secures 75% or more marks.

Questions should be objective type and short notes. Descriptive questions would be preferably avoided.

(i) Paper I shall contain questions from the following topics –

Head and neck, Central nervous system, Thorax, Superior extremity.

(ii) Paper II shall contain questions from the following topics:-

Abdomen and Pelvis including perineum, Inferior Extremity, Biaphragm.

1. A course of human anatomy including embryology, neurology, histology and applied anatomy of not less than 50 lectures.
2. A course of lecture cum demonstration in osteology, arthrology, mycology, angiology, splanchnology, ductless glands, neurology, sense organs, surface anatomy, radiology and living anatomy consisting of 75 lectures.
3. A course of dissection of all the parts of the body (Head, Neck, Brain, Thorax, Abdomen, Pelvis, Perineum superior extremity and inferior extremity) consisting of not less than 200 hrs covered in at least 100 working days.
4. A course of practical histology covering not less than 60 periods. It will include:
   (a) Histological techniques.
   (b) Staining and examination of elementary tissue.
   (c) Examination of sections of different parts of the body.
5. In the section of gross anatomy stress would be on clinically relevant relationships; functional and cross sectional anatomy of different parts of the body.
6. In histology section, emphasis will be on correlation of the structure with the function as a pre-requisite for understanding the altered state in various disease processes.
7. In the central nervous system, importance to be given on the analysis of the integrative and regulatory function of the organs and localization of site of gross lesions according to the deficits encountered.
8. In embryology emphasis will be on critical stages of development and effect of common teratogens, genetic mutations and environmental hazards. Explanation of developmental basis of major variations and abnormalities.
10. Principals of water-imaging techniques and interpretation of computerized Tomography (CT) Scan, Sonogram etc.
11. Clinical basis of some clinical procedures i.e. intramuscular and intravenous injection, lumbar puncture kidney biopsy, liver biopsy etc.
12. The process of teaching in gross anatomy should be done by students by dissection of the human body or by demonstration of the dissected parts, by models any by charts.
13. Stress shall be laid on the fundamental and basic principles of the subject and details shall be avoided. Student should be able to co-relate the structure with the function and in all sections, importance to be given to the applied aspect.

Books Recommended:
(a) Gray’s anatomy
(b) Embryology by Alngman
(c) Hewer’s Text Book of Histology
(d) Text book of Anatomy – regional and applied by R. J. Last
(e) Snell’s Clinical anatomy
(f) Snell’s Clinical newcoanatomy
(g) Grant’s method of anatomy
(h) Neuroanatomu by carpenter.

Practical /Clinical :-
1.
2.
3.
Physiology

Distribution of Marks:

<table>
<thead>
<tr>
<th>Written paper</th>
<th>- 100 Marks</th>
</tr>
</thead>
<tbody>
<tr>
<td>(Paper I - 50, Paper II - 50)</td>
<td></td>
</tr>
<tr>
<td>Oral</td>
<td>- 20 Marks</td>
</tr>
<tr>
<td>Practical</td>
<td>- 40 Marks</td>
</tr>
<tr>
<td>Internal Assessment</td>
<td>- 40 Marks</td>
</tr>
<tr>
<td>(Written - 20, Practical - 20)</td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td>: 200 Marks</td>
</tr>
</tbody>
</table>

Written Paper - Two

Time allowed                                             - 3 hours (for each Paper)
Full Marks                                                      - 100 - (50 for each paper)

All questions for both the papers are to be set by a single external examiner preferably from outside the State.

Examiners:
There shall be four examiners- Two external from outside the State preferably and two internal from within the State.

A candidate will be declared to have passed the examination in the subject provided he or she secures 50% in aggregate with a minimum of 50% of the total marks in written and oral, and 50% in practical.

A candidate will be declared to have passed the subject with honours provided he or she secures 75% or more marks of the total.

Questions should be objective type and short notes. Descriptive questions would be preferably avoided.

(i) Physiology Paper I –

Introduction of human Physiology detailed outline of relevant applied aspects of the following:-

(ii) Physiology Paper II:-

Shall consist of detailed study and applied aspect of Cardiovascular System, Respiration, Biophysics related to these system and Autonomic nervous system, Central nervous system and special senses. This will also include Biophysics related to it.

Books Recommended for Physiology:
Theory :-
1. Medical Physiology by Gytone
2. B. D. S. Text Book of Physiology and Biochemistry by Bell, Davidson and Scarborough
3. Wright’s Physiology by Erio Neil
4.

Practical /Clinical :-
1.
2.
3.
Pathology

Distribution of Marks:

Written paper - 80 Marks
   (Paper I - 40, Paper II - 40)
Oral - 15 Marks
Practical - 25 Marks
Internal Assessment - 30 Marks
   (Written - 15, Practical - 15)
Total : 150 Marks

Written Paper - Two
Time allowed - 3 hours (for each Paper)
Full Marks - 80 - (40 for each paper)

All questions for both the papers are to be set by a single external examiner preferably from outside the State.

Examiners:

There shall be four examiners - Two external from outside the state preferably and two internal from within the University.

A candidate will be declared to have passed the examination in the subject provided he or she secures 50% in aggregate with a minimum of 50% of the total marks in written and oral, and 50% in practical/Clinical and internal assessment.

A candidate will be declared to have passed the subject with honours provided he or she secures 75% or more marks of the total.

Questions should be objective type and short notes. Descriptive questions would be preferably avoided.

iii) Paper I shall contain questions from the following topics –

1) GENERAL PATHOLOGY
   a) General consideration – Introduction, Disease, Hereditary, Environmental Malformation, Death.
   b) Inflammation & Repair.
   c) Disturbances of nutrition – Progressive & retrogressive changes.
   e) Sarcoidosis
   f) Pigments & Pigmentation Haemosiderosis, Haemochromatosis, Jaundice, Prophyrins & Prophyria.
   g) Tumours/Neoplasia.
   h) The Collagen diseases.
   i) Pathological changes due to radiation.
   j) Genetic Disorders.

2) SYSTEMIC PATHOLOGY
   a) C.V.S.
      i) Rheumatic diseases of the heart
      ii) Bacterial Endocarditis
      iii) Coronary artery diseases
      iv) Congenital heart diseases
      v) Chronic valvular diseases
      vi) Myocardial lesions
      vii) Pericardial lesions
      viii) Heart failure
      ix) Atherosclerosis
      x) Aneurysms
      xi) Hypertension
      xii) Cardio vascular syphilis
   b) KIDNEY / LOWER URINARY TRACT
      i) Glomerulonephritis
      ii) Nephrosis
      iii) Renal T.B.
iv) Pyelonephritis & Cystitis  
v) Hydronephrosis, Tumours & Cysts  
vi) Urinary Calculi.

c) RESPIRATORY SYSTEM  
i) Bronchitis, Bronchial asthma, Bronchiectasis.  
ii) Pneumonia  
iii) Pneumoconiosis  
iv) Abscess & Gangrene  
v) Pulmonary T.B.  
vi) Atelectasis & Collapse  
vi) Emphysema  
iii) Tumour of lungs & disease of pleura.

d) LIVER & BILIAKY PASSAGE  
i) Hepatitis & hepatic necrosis, cirrhosis  
ii) Tumours of Liver  
iii) Gall blader  
iv) Cholecystitis & Gall stone

e) G.I.T.  
i) Gastritis & Ulcers of GIT  
ii) Carcinoma of stomach  
iii) Chronic ulcerative colitis  
iv) Regional enteritis  
v) Appendicitis  
vi) Carcinoid Tumour  
vii) Hirsehespurg’s diseases

f) PANCREAS  
i) Pancreatitis  
ii) Fibrocystic disease : Muco-viscidosis  
iii) Tumours of Pancreas  
iv) Diabetes Mellitus

g) MALE & FEMALE REPRODUCTIVE SYSTEM  
i) Tumour of testis  
ii) Benign Hypertrophy and carcinoma of Prostate  
iii) Tumours of uterus and ovary including cysts  
iv) Hyadatiform mole, Chorioepithelioma & Salphingitis  
v) Teratoma  
vi) Blastoma

h) THE BREAST  
i) Cystic hyperplasia  
ii) Sclerosing adenosis  
iii) Cysts & Tumours of Breast

i) ENDOCRINE  
i) Tumours of pituitary  
ii) Pituitary  
iii) Adrenal  
iv) Thyroid  
v) Parathyroid – Goiter, Graves disease, Creatinism, Myxoedema, Thyroiditis

j) RETICULOENDOTHELIELUM SYSTEM  
i) Diseases of Spleen  
ii) Lymphadenopathy  
iii) Tumours of lymphoid tissue including Hodgkin’s disease  
iv) Reticulosis, Ewings, Sarcoma

k) BONES & JOINTS AND SKELETAL MUSCLE  
i) Osteomyelitis  
ii) Osteoarthritis – Rheumatic arthritis  
iii) Gout
iv) Tumours
l) NERVOUS SYSTEM
   i) Meningitis
   ii) Acute Ant. Poliomyelitis
   iii) Syphilis of C.N.S. & Tumours
   v) Brain - Tumours of Brain & Spinal Cord.
   vi) Spinal cord - Tumours of Brain & Spinal Cord.
m) HAEMATOPOETIC SYSTEM
   i) Anaemias
   ii) Polycythemia
   iii) Leukaemia
   iv) Multiple myeloma
   v) Bleeding disorders
   vi) Blood transfusion

3) MORBID PATHOLOGY
iv) Paper II shall contain questions from the following topics :-
   1. CLINICAL PATHOLOGY
      a) Examination of Urine
      b) Examination of CSF
      c) Examination of Fluids (Plenral, Peritoneal & Pericardias)
      d) Examination of Seminal Fluid
   2. HAEMATOLOGY
      (a) TC & DC
      (b) Platelets & Reticulocytes
      (c) Differential WBC Count
      (d) Hb Estimation
      (e) PCV & Absolute Values
      (f) Prothrombin Time
      (g) Bleeding Time & Coagulation Time
      (h) Determination of ESR
      (i) Osmotic Fragility Test
      (j) Sickling Test
      (k) Rh typing & ABO Grouping
      (l) Demonstration of Slides (Haematological, Peripheral & Bone Marrow)
   3. CHEMICAL PATHOLOGY
      a) Gastric Analysis
      b) Function Tests- Kidney, Liver, Pancreas, & Endocrine Glands
      c) Variations of chemical composition of Blood, Urine & CSF

Books Recommended:
Theory :-
1. Pathological basis of diseases by Robbin’s
2. Tex Book of Pathology by Anderson
3. Haematology by Degruche & Wintrobe.
4. General Pathology by Walter & Israel, Muire’s Text Book of Pathology
Practical /Clinical :-
1. Todd’s & Sanford’s Clinical Pathology
2. Practical by Dacie. (Haematological)
3.
Microbiology

Distribution of Marks:
- Written paper (Paper I - 40, Paper II - 40)  - 80 Marks
- Oral  - 15 Marks
- Practical  - 25 Marks
- Internal Assessment (Written - 15, Practical - 15)  - 30 Marks

Total: 150 Marks

Written Paper - Two
- Time allowed  - 3 hours (for each Paper)
- Full Marks  - 80 - (40 for each paper)

Paper I – General Bacteriology, Systemic Bacteriology
Paper II – Parasitology Virology, Medical Micology, Immunology, Hospital Infection & Immunoprophylex

All questions for both the papers are to be set by a single external examiner preferably from outside the State.

Examiners:
There shall be four examiners- Two external from outside the states preferably and two internal from within the same University or College.
A candidate will be declared to have passed the examination in the subject provided he or she secures 50% in aggregate with a minimum of 50% of the total marks in written and oral, and 50% in practical/clinical and internal assessment.
A candidate will be declared to have passed the subject with honours provided he or she secures 75% or more marks of the total.
Questions should be objective type and short notes. Descriptive questions would be preferably avoided.

i) Paper I shall contain questions from the following topics –
1) General Bacteriology – (a) Historical introduction, (b) Morphology & Physiology of Bacteria, (c) Sterilization & Disinfection (d) Culture Media, their preparation & uses (e) Bacterial staining (f) Classification & Identification of Micro Organism (g) Morphology & Nature of Bacteria (h) Growth & Nutrition of Bacteria (I) Bacterial Genetics
2) Systemic Bacteriology – Morphology, Culture Characters, Biochemical Reactions, Antigenic Properties, Toxin Production, Pathogenesis, Laboratory Diagnosis, Prevention & Epidemiology of following bacteria
   a) Gram Positive Cocci :- Staphylococcus, Streptococcus, Pneumococcus
   b) Gram Negative Cocci :- Neisseria
   c) Gram Positive Bacilli :- Corynebacterium, Bacillus, Clostridia, Mycobacterium
   d) Gram Negative Bacilli :- Enterobacteriaceae, Escherichia, Klebsiella, Proteus, Shigella, Salmonella, Vibrio
   e) Cocco Bacilli :- Brucella, Pasteurella, Yarsinia, Bordetella,
   f) Misc :- Actinomyetes, Compllyobacter, Helicobacter Pylori, Listeria
   g) Spirochetes :- Trepanoma, Borrelia, Leptospira
   h) Mycoplasma
   i) Chlamydia
   j) Rickettsia

3) Any other relevant topics of importance of MBBS standard

ii) Paper II shall contain questions from the following topics :-
1. Parasitology
   Protozoa:- Epidemiology, Morphology, Life Cycle, Pathogenesis, & Laboratory Diagnosis of all protozoa
   Helminths:- Epidemiology, Morphology, Life Cycle, Pathogenesis, & Laboratory Diagnosis of all Helminths
2. Virus:-
General properties of Virus, Classification of Virus
Structure & Chemical Composition of Virus
Inclusion Bodies, Interference & Interferons
Virul Haemagglutination, Laboratory Diagnosis of Viral Diseases
Immunodefeciency Disease
3. Medical Mycology
   Superficial & Deep Mycoses
4. Immunology
   Immunity, Antigens, Antibodies (Immunoglobulins), Antigen-Antibody Reaction,
   Compliment System, Structure & Functions of the immune system, Immune
   response, Immuno defeciency disease, Hypersensitivity, Autoimmunity
5. Hospital Infection
6. Immunoprophylaxis
7. Any other relevant topics of importance of MBBS standard

Books Recommended:
Theory :-
1. Medical Microbiology – by R. Cruickshank
2. Text Book of Microbiology by – R. Ananthuamy & CKJ Paurer
3. A Text Book of Microbiology by – P Chakravorty
4. Essentials of Medical Microbiology by – Rajesh Bhatia
5. Text Book of Microbiology by – R. L. Ichlupujari
6. Parasitology by – D. R. Arora

Practical /Clinical :-
1.
2.
3.
Pharmacology

Distribution of Marks:

- Written paper (Paper I - 40, Paper II - 40) - 80 Marks
- Oral - 50 Marks
- Practical - 25 Marks
- Internal Assessment (Written - 15, Practical - 15) - 30 Marks

Total: 150 Marks

Written Paper - Two
- Time allowed - 3 hours (for each Paper)
- Full Marks - 120 - (40 for each paper)

All questions for both the papers are to be set by a single external examiner preferably from outside the State.

Examiners:

There shall be four examiners - Two external from outside the states preferably and two internal from within the University.

A candidate will be declared to have passed the examination in the subject provided he or she secures 50% in aggregate with a minimum of 50% of the total marks in written and oral, and 50% in practical/clinical and internal assessment.

A candidate will be declared to have passed the subject with honours provided he or she secures 75% or more marks of the total.

There will be one Full Question and short questions & Objectives having not less than 20 marks in each papers.

i) Paper I shall contain questions from the following topics –
   1) General Pharmacology
   2) Drugs acting on Autonomic Nervous System
   3) Drugs acting on Somatic Nervous System, Muscle Relaxants, Local Anaesthetics
   4) AntiMicrobial Drugs & Chemotherapy of Neoplastic Diseases
   5) Drugs acting on Cardiovascular System
   6) Vitamins
   7) Vaccine & Sera
   8) Immuno Modulators

ii) Paper II shall contain questions from the following topics:-
   1) Drugs acting on central Nervous System
   2) Drugs acting on Kidney
   3) Hormones & related drugs
   4) Drugs affecting blood & blood formation
   5) Drugs acting on GIT
   6) Drugs acting on Respiratory system
   7) Autocoides and related drugs
   8) Drugs acting on skin & mucous membrane
   9) Antiseptics, Dis Infectants, Ectoparasiticides,
   10) Chelating Agents

Books Recommended:

Theory:
1. Clinical Pharmacology – D.R. Laurence
2. Essentials of Pharmacology – K.D. Tripath
3. Pharmacology & Pharmacotherapeutics

Practical /Clinical:
1. Practical Note Book – issued by Patna Medical College, Patna
2. R. S. Shatoshkar

1. Clinical Pharmacology – D.R. Laurence
2. Essentials of Pharmacology – K.D. Tripath
3. Pharmacology & Pharmacotherapeutics
Distribution of Marks:

- Written paper  (Paper I - 40)  - 40 Marks
  - Section A- 20, Section B- 20 (Each section to be written in separate answer paper)
  - Oral - 10 Marks
  - Practical - 30 Marks
  - Internal Assessment - 20 Marks

  (Written - 10, Practical - 10)

Total: 100 Marks

Written Paper - One

- Time allowed  - 3 hours (for each Paper)
- Full Marks  - 40 - (20 for each section)

All questions for both the papers are to be set by a single external examiner preferably from outside the State.

Examiners:

There shall be four examiners- Two external from outside the states preferably and two internal from within the State.

A candidate will be declared to have passed the examination in the subject provided he or she secures 50% in aggregate with a minimum of 50% of the total marks in written and oral, and 50% in practical/Clinical and internal assessment.

A candidate will be declared to have passed the subject with honours provided he or she secures 75% or more marks of the total.

Questions should be objective type and short notes. Descriptive questions would be preferably avoided.

i) Section A:- shall contain questions from the following topics –

1) Procedure in Criminal Court- Inquest, Medicolegal Reports, Medical Evidences, Dying Declaration, & Dying Depositions
2) Identification:- Exam of skeleton for Age, Sex, Dactylography
3) Death:- Signs of Death, Sudden Death, Time elapsed since Death, PM Staining, RM, Decomposition, Infanticide
4) Medicolegal Autopsy:- PM Exam, Exhumation, Starvation Death
5) Violent Asphyxial Death:- Hanging, Strangulation, Suffocation, Drowning
6) Mechanic Injuries & Wounds:- Classification of Wounds, Examination of Injuries, Injury report, Regional injuries, Fire arm injuries, Aircraft & Rail injuries
7) Blood, Seminal & other stains:- Hairs, Trace Evidences, Group specific substances, DNA

ii) Section B:- shall contain questions from the following topics :-

2. Medicolegal Aspects of Insanity:- Criminal Responsibility of an insane, Testamentary capacity, Restoration of an insane
3. Law in relation to Medical Man:- Professional Secrecy, Privileges, Responsibility & Obligation of Medical Man, The Indian Medical Council & State Medical Council, Malpractice & Negligence
4. Toxicology:- Diagnosis & general treatment of poisoning, Preservation & Transmission of Viscera, & suspected material for chemical analysis, Detection of Poison, Classification of Poison, Sign & Symptoms, Treatment & PM appearances in poisoning cases, Mineral Acids, Corrosive alkalies, Carbolic Acid, Oxalic Acid, Phosphorus & Organo-Phosphorus Compounds, Arsenic, Salts of copper, Lead, Mercury, Opium, Alcohol, Carbon Monoxide, Carbon Dioxide, Cotton Seeds, Croton

Books Recommended:
Theory :-
1. Modi’s Medical Jurisprudence and Toxilogy.
2. Principles of Forensic Medicine – by Apurba Nandy
4. Practical /Clinical :-
1. Forensic Medicine & Toxicology – by Dr. K. S. Narayan Reddy
2. Fundamentals of Forensic Medicine and Toxicology by Dr. R. Basu.
3.
COMMUNITY MEDICINE

Distribution of Marks:

Written paper (Paper I - 60, Paper II - 60) - 120 Marks
Oral - 10 Marks
Practical - 30 Marks
Internal Assessment (Written - 20, Practical - 20) - 40 Marks

Total: 200 Marks

Written Paper - Two
Time allowed - 3 hours (for each Paper)
Full Marks - 120 - (60 for each paper)

All questions for both the papers are to be set by a single external examiner preferably from outside the State.

Examiners:
There shall be four examiners- Two external from outside the states preferably and two internal from within the State.
A candidate will be declared to have passed the examination in the subject provided he or she secures 50 % in aggregate with a minimum of 50% of the total marks in written and oral, and 50% in practical and 50% in Internal Assessment.
A candidate will be declared to have passed the subject with honours provided he or she secures 75% or more marks of the total.
Questions should be objective type and short structured type. Descriptive questions would be preferably avoided.

i) Paper I shall contain questions from the following topics –
1) Concepts of Preventive Medicine, Social Medicine, Public Health & Community Medicine
2) Evolution & Progress of Medicine
3) Social Factors relating to Health & Disease
4) Concepts of Health & Disease; Natural History of Disease; Disease causation.
5) Principals of Prevention & Control of Diseases.
6) General Epidemiology & Epidemiological Methods. Uses of Epidemiology
7) Elements of Biostatistics.
8) Study of various Vaccines & Immunizations
9) Study of antiseptics & Dis-infection, Repellants & Sterilization.
10) Environment & Health, Physical Chemical & Biological Components of Man’s Environment.
11) Water & its purification; Air & Air pollution; Housing & Health; Wastes & Wastes Disposal.
12) Sanitation of Villages & Towns and Fairs & Festivals.
13) Medical Entomology, Rodents & Insecticides.
14) Occupational and Industrial Health & Hygiene.
15) Nutrition, Dietetics & Food Hygiene.
16) Study of Food & Water borne Diseases.
17) Study of acute infectious respiratory diseases including eruptive fevers.
18) Investigation of Epidemic & Study of other locally Endemic Diseases.
19) Any other latest & recent advances in the subject.
ii) Paper II shall contain questions from the following topics :-
2) Family Planning & Population Control.
3) Maternal & Child Health Care; Infant Care; Normal Growth & Development.
4) Community Pediatrics & Geriatrics; School Health Service.
5) Principals of Genetics as applied to Health & Disease.
6) Epidemiology of Communicable diseases including Study of Arthropod borne diseases; Surface Infections & Infestations; Zoonoses.
7) Study of Tuberculosis Leprosy & other chronic Illnesses
8) Sexually transmitted Diseases (STD) & HIV; Prevention of Blood born Diseases.
9) Epidemiology of non communicable diseases
10) Primary Health Care, Setup Organization & Functions.
11) Health Care Delivery system in India.
12) Comprehensive Health Care including Rehabilitation of Disabled & Handicapped in India.
13) Health Planning & Management.
14) National Health Programs.
15) International Health Agencies; and Voluntary Health Agencies.
16) Mental Health, Preventive Psychology & Psychiatry.
17) Health Education & Communication & Counseling.
18) Disaster Management.
19) Any other latest & recent advances in the subject

Books Recommended:
Theory :-
1. Text Book of PSM – J.E.Park
2. Essential Preventive Medicine – O.P.Ghai & P.Gupta
3. Text Book of Community Medicine – Kulkarni & Baride
4. Epidemiology & Management of Health Care for all – Sathe & Sathe
5. Preventive Medicine & Public Health – Maxcy-Rosenau
6. Preventive & Social Medicine in India – B.K.Mahajan
7. Introduction to Biostatistics – B.K.Mahajan
8. Text Book of PSM – Jaypee - Prabhakara
Eye

Distribution of Marks:
- Written paper (one) - 40 Marks
- Oral - 10 Marks
- Clinical - 30 Marks
- Internal Assessment - 20 Marks
  (Written - 10, Practical - 10)

Total: 100 Marks

Written Paper - One
Time allowed - 3 hours
Full Marks - 40

All questions for the paper are to be set by a single external examiner preferably from outside the State.

Examiners:
There shall be four examiners - Two externals from outside the state preferably and two internals who are senior most teachers of the department concerned.

A candidate will be declared to have passed the examination in the subject provided he or she secures 50% in aggregate with a minimum of 50% of the total marks in written and oral, and 50% in practical/Clinical.

A candidate will be declared to have passed the subject with honours provided he or she secures 75% or more marks of the total.

Questions should be objective type and short notes. Descriptive questions would be preferably avoided.

i) Paper I shall contain questions from the following topics –
   1) Common problems affecting the Eye
   2) Principle of management of major Ophthalmic Emergencies
   3) Main systemic diseases affecting the Eye
   4) Effects of local & Systemic diseases on patient’s vision and necessary action required to minimise the effect of such diseases
   5) Adverse drug reactions with ophthalmic manifestations
   6) Magnitude of Blindness in India and its main causes
   7) National programme for control of blindness and its implementation at various levels.
   8) Eye care education for prevention of Eye problems
   9) Role of Primary Health Centres in organization of Eye camps.
   10) Organization of Primary Health Care and the functioning of Ophthalmic Assistants
   11) Integration of National programme for control of Blindness with other national programmes
   12) Eye Bank Organization
   13) Refractive Errors

N.B. a) Long Questions containing Anatomy, Physiology, Pharmacology etc. - 10 Marks
b) Long Question containing diseases of Eye - 10 Marks
c) Write short notes on (Including Community Ophthalmology) - 4X5= 20 Marks

Books Recommended:
Theory:-
1. Parson’s Diseases of the Eye by Stephen J.H. Miller
2. The Eye & its Disorders by Trevor-Roper
3. Ophthalmology by A.K. Khurana
4. Essentials of Ophthalmology by Samar K Basak
Distribution of Marks:

- Written paper (Paper I - 40) - 40 Marks
- Oral - 10 Marks
- Clinical - 30 Marks
- Internal Assessment (Written - 10, Practical - 10) - 20 Marks

Total: 100 Marks

Written Paper - One
Time allowed - 3 hours (for each Paper)
Full Marks - 40

All questions are to be set by a single external examiner preferably from outside the State.

Examiners:
There shall be four examiners- Two external from outside the states preferably and two senior most teachers as internal from the ENT department.

A candidate will be declared to have passed the examination in the subject provided he or she secures 50% in aggregate with a minimum of 50% of the total marks in practical and Clinical.

A candidate will be declared to have passed the subject with honours provided he or she secures 75% or more marks of the total.

Paper shall contain questions from the following topics –

1. EAR:- Anatomy, Physiology Examination of the Ear Diseases of External, Middle and Internal Ear including Acoustic Neurones and Facial Nerve disorders.
2. NOSE and PNS:- Anatomy, Physiology Examination of Nose and PNS diseases of External Nose and Nasal septum, Rhinitius Nasal Allergy, Varamotor rhinitius, Polyp, Spistaxis, Sinusitis, cysts and Tumours of Nose and PNS.
3. PHARYNX:- Anatomy, Physiology Examination of Pharynx, diseases of Fonsil and Adenoldt, Pharyngitis, Pharyngeal abscess and Tumours.
4. LARYNX:- Anatomy, Physiology Examination of Larynx, Laryngitis, Hoarseness, Stridar, Neurological, Laryngeal diseases, Tumours.
5. TRACHEO BRONCHIAN TREE:- Anatomy, Physiology Examination of Tracheostomy, Tracheo-Bronchial Foreign Body.
6. OESOPHAGUS:- Anatomy, Physiology Examination, Dysphagia.
7. HEAD ANF NECK:- Facial pain, salinary Gland, Disease of oral canly Dysphagia, AIDS

Besides the above topics, any topics which is added from time to time in the books recommended for study.

Books Recommended:
Theory:-
1. Logan Turner’s Diseases of the Nose, Throat and Ear.
2. A Short Text Book of ENT Disease – Dr. K. B. Bhagera
3. Fundamentals of Ear, Nose and Throat and Head Necie Surgery – Dr. S. K. De.
4. Diseases of Ear, Nose & Throat – Dr. P. L. Dhintra

Practical /Clinical:-
1. Diseases of Ear, Nose & Throat – Dr. P. L. Dhintra
2. 3.
MEDICINE

Distribution of Marks:

Written paper (Paper I - 60, Paper II - 60) - 120 Marks
Oral - 20 Marks
Clinical - 100 Marks
Internal Assessment (Written - 30, Practical - 30) - 60 Marks

Total : 300 Marks

Written Paper - Two
Time allowed - 3 hours (for each Paper)
Full Marks - 120 - (60 for each paper)

All questions for both the papers are to be set by a single external examiner preferably from outside the State.

Examiners:

There shall be four examiners- Two external from outside the states preferably and two internal from within the State.

A candidate will be declared to have passed the examination in the subject provided he or she secures 50 % in aggregate with a minimum of 50% of the total marks in written and oral, and 50% in practical/clinical and internal assessment.

A candidate will be declared to have passed the subject with honours provided he or she secures 75% or more marks of the total.

Questions should be objective type and short notes. Descriptive questions would be preferably avoided.

i) Paper I shall contain questions from the following topics –
   1) Cardiovascular System
   2) Respiratory System
   3) Gastrointestinal System
   4) Neurological Diseases
   5) Poisons, Occupational Hazards
   6) Immune System, Connective Tissue & Joints
   7) Oncology & Hematology

ii) Paper II shall contain questions from the following topics :-
   8) Genetics & Diseases
   9) Nutrition & Infectious Diseases
   10) Endocrinology & Metabolism
   11) Kidney & Urinary Tract
   12) Psychiatry
   13) Dermatology
   14) Sexually transmitted Diseases

Books Recommended:

Theory :-
1. Davidson’s Principals & Practices of Medicine
2. Harrison’s Text Book of Internal Medicine
3. API Text Book of Medicine
4.

Practical/Clinical :-
1. Clinical Medicine by Hatehison
2. Clinical Medicine by Macleod
3.
## Distribution of Marks:

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<td>Internal Assessment (Written - 30, Practical - 30)</td>
<td>60</td>
</tr>
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<td><strong>Total</strong></td>
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### Written Paper - Two

Paper I will have Section A and Section B. Both sections shall be answered in different answer books. Section B will cover Orthopedic Surgery, which shall be evaluated by a separate examiner teacher in the subject concerned.

- **Time allowed**: 3 hours (for each Paper)
- **Full Marks**: 120 (60 for each paper)

All questions for both the papers are to be set by a single external examiner preferably from outside the State. Section B of Paper I will be set by eligible teacher of Orthopaedic Department.

### Examiners:

There shall be four examiners - Two external preferably from outside the states and two internals. One of the internal will be the HOD, Surgery and other internal will rotate every two years. There will be one Internal of the Orthopasic Department, who will be the HOD of Orthopaedic Department.

A candidate will be declared to have passed the examination in the subject provided he or she secures 50% in aggregate with a minimum of 50% of the total marks in written and oral, and 50% in practical/clinical and internal assessment.

A student will be declared to have passed the subject with honours provided he or she secures 75% or more marks of the total.

Questions should be of preferable objective type and short notes. Descriptive questions would be preferably avoided.

### Paper I - Section A

- a. General Surgery
  1. Basic Principal of Surgery
  2. Wound Tissue repair and scar.
  4. Acute Resuscitation and support.
  5. Nutritional Support.
  7. Specific Infection and AIDS.
  8. Principal of Transplantation.
  9. Tumours, Cyst, Ulcer and Sinus.
  10. Skin and Burn & Skin Grafting.
  11. Arterial Disorder.
  12. Venous Disorder.
  13. Lymphatic and Lymph Nodes.
  15. Head Injury.
  16. Brain Tumour.
  18. Mouth Cheek and Tongue.
  20. Pharynx.
  22. Neck.
  23. Thyroid Gland & Throglossal Tract.
24. Parathyroid.
25. The Breast.

ii) Section B of Paper I will contain questions from Orthopaedic Surgery. This will cover the following topics:
1. Fracture and Dislocation – General Principle and Management.
2. Fracture and Dislocation of Shoulder and Upper Limb.
3. Fracture and Dislocation of Lower Limb.
5. Tumour of the Bones and Joints.
6. Generalized Disease of Bones and Joints and Chronic Joint Disorder.
7. Congenital disorder of the Bones and Joints.
10. The Hand and the Foot.
12. Metabolic Diseases of the Bones – Rickets etc.

iii) Paper II –
   a. Basics of Anaesthesiology, Radiology and Dentistry
   b. Surgical Diseases of Organs below Diaphragm.
      1. The Stomach and Duodenum.
      2. Diseases of the Liver.
      3. Diseases of Spleen and Rupture Spleen.
      4. Disease of the Gall Bladder and Bile Duct.
      5. The Pancreas.
      6. Peritoneum, Omentum, Mesentery, Retroperitoneal Space.
      7. The small and large Intestine.
      8. Intestinal Obstruction in Adult and Child.
      9. The Vermiform Appendix.
      12. Hernia Umbilicus, Abdominal Wall.
      13. Abdominal Trauma.
      17. Retension of Urine.
      20. Prostate and Seminal Vesicle.
      22. Testis and Scrotum.
      23. Day Care Surgery.
      24. Surgical Audit.

Books Recommended:
Theory :-
1.
2.
3.
4.
Practical /Clinical :-
1.
2.
3.
Distribution of Marks:

- **Written paper** (Paper I - 40):
  - 40 Marks
- **Oral**:
  - 10 Marks
- **Clinical**:
  - 30 Marks
- **Internal Assessment** (Written - 10, Practical - 10):
  - 20 Marks

Total: 100 Marks

Written Paper - One

- Time allowed: 3 hours (for each Paper)
- Full Marks: 40 - (40 for each paper)

All questions for the paper are to be set by a single external examiner preferably from outside the State.

Examiners:

- There shall be four examiners - Two external from outside the states preferably and two internal from within the State.

A candidate will be declared to have passed the examination in the subject provided he or she secures 50% in aggregate with a minimum of 50% of the total marks in written and oral, and 50% in practical/clinical and internal assessment.

A candidate will be declared to have passed the subject with honours provided he or she secures 75% or more marks of the total.

Questions should be objective type and short notes. Descriptive questions would be preferably avoided.

i) Paper I shall contain questions from the following topics –


Books Recommended:

**Theory :-**

| 1. |
| 2. |
| 3. |
| 4. |

**Practical /Clinical :-**

| 1. |
| 2. |
| 3. |

4.
Obstetrics & Gynecology

Distribution of Marks:
- Written paper (Paper I - 40, Paper II - 40) - 80 Marks
- Oral - 30 Marks
- Clinical (25+25) - 50 Marks
- Internal Assessment (Written - 20, Practical - 20) - 40 Marks

Written Paper - Two Total: 200 Marks
Time allowed - 3 hours (for each Paper)
Full Marks - 80 - (40 for each paper)

All questions for both the papers are to be set by a single external examiner preferably from outside the State.

Examiners:
There shall be four examiners - Two external from outside the states preferably and two internal from within the State.
A candidate will be declared to have passed the examination in the subject provided he or she secures 50% in aggregate with a minimum of 50% of the total marks in written and oral, and 50% in practical/Clinical and internal assessment.
A candidate will be declared to have passed the subject with honours provided he or she secures 75% or more marks of the total.

Questions should be objective type and short notes. Descriptive questions would be preferably avoided.

i) Paper I shall contain questions from the following topics –
1. Normal pregnancy, labour, puerperium and its management.
2. Abnormal pregnancy, labour, puerperium and its management.
3. Caesarian section, laprotomy.
4. Examination of normal and high risk pregnant cases.
5. Conduct normal and abnormal deliveries.
7. Medical disorders during pregnancy.
   Heart Diseases – Ch. Nephritis, Jaundice – Anaemia – Diabetease etc.
8. P.I. H. & clampsia
9. Episotomy, Forcep, Vaccum extraction.

ii) Paper II shall contain questions from the following topics :-
1. Anatomy, Physiology and Pathophysiology of the reproductive system.
2. Contraception and various techniques, M.T.P.
5. Indication, techniques and complication of surgeries, abdominal and vaginal hysterectomy, Fothergills operation and vaccum aspiration for M.T.P.
6. Pelvic Examination, Diagnosis and management of common gynaecological problems including early detection of genital malignancies and management
7. Vaginal Cytology.
8. Investigations like biochemical, hostopathological, radiological ultra sound etc.
9. Malagnencies – Cervical, Endometrium, Ovarian, Vulval
10. Fibroid Uterus
11. Prolapse uterus
12. Infertility
13. Endometrosis
14. Dub
15. Menopause

Books Recommended:
Theory :-
1. Hallan & Brew – Obstetric
2. Shaw – Gynaecology
3. Dutta – Obstetrc
4. Dutta - Gynaecology

Practical/Clinical :-
1. Shaw - operative