CURRICULUM FOR MBBS

1. Every student shall undergo a certified study extending over 4½ 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 $4\frac{1}{2}$ (9 semester) years is divided into 3 phases as follows:

Community Medicine Community Community Medicine Community Community Medicine Community Community Medicine Community Comm		2 (9 semester) years is divided into 3 phases as follows:	1 st Professional			
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Family Welfare Planning (300 hrs teaching)		Dentistry (10 hrs teaching)	_			
Community Medicine (50 hrs teaching)						
		Community Medicine (50 hrs teaching)				

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.

Total Subjects	3 rd sem ester weeks	4 th sem ester weeks	5 th sem ester weeks	6 th sem ester weeks	7 th sem ester weeks	8 th sem ester weeks	9 th sem ester weeks	Total weeks
Gen. Medicine	6		4		4	6	6	26
Paediatrics		2		2	2	4		10
T.B. & Chest		2						02
Skin & STD		2		2		2		06
Psychiatry			2					02
Radiology					2			02
Gen. Surgery	6		4		4	6	6	26
Orthopaedics			4	4			2	10
Ophthalmology		4		4			2	10
ENT		4		4				08
Obst. & Gynae	2	4	4		4	4	6	24
Comm. Medicine	4	4		4				12
Casualty				2				02
Dentistry					2			02
Total in Weeks	18	22	18	22	18	22	22	142

Distribution of Marks to various Disciplines

Distribution of Marks to various Disciplines											
Subjects		Theory	Tot	Oral Prac/ Int. Assessment					Tot M	Remarks	
Subjects	PΙ	PI PII		Orai	Clin.	The	Pra	Tot	in sub		
				1 st Professional Exam					One applied		
	~ 0	~0	100					4.0	•	question of 10	
Anatomy	50	50	100	20	40	20	20	40	200	marks in each	
Physiology	50	50	100	20	40	20	20	40	200	"	
Biochemistry	50	50	100	20	40	20	20	40	200	•••	
				and D	· ·	1.5					
				2" Pi	ofession	iai Exai	m I	ļ			
Pathology	40	40	80	15	25	15	15	30	150	"	
Microbiology	40	40	80	15	25	15	15	30	150	"	
Pharmacology	40	40	80	15	25	15	15	30	150	One question	
Tharmacology	40	40	00	13	23	13	13	30	130	on clinical	
Forensic Medicine	40		40	10	30	10	10	20	100	therapeutics	
1 orenisie ivicarenie	10		10	10	30	10	10	<u> </u>	100	One question	
				3 rd Pr	ofession	al Exar	n Part 1			on pre & para	
										clinical aspect	
Ophthalmology	40		40	10	30	10	10	20	100	of 10 marks	
Otorhinolarygo	40		40	10	30	10	10	20	100	"	
Comm Medicine	60	60	120	10	30	20	20	40	200		
										Paper I Gen.	
										Med., Paper II	
				ard D	· ·	1.5	D . 1			Gen. Med.	
				3" Pr	ofession	al Exar	n Part I			including	
										Psychiatry Skin	
										& STD one	
										question on	
Medicine	60	60	120	20	100	30	30	60	300	basic & applied	
Medicine	00	00	120	20	100	30	30	00	300	subject Paper I-Sect. A	
										Gen. Surg.	
										Sect. B Ortho,	
										Paper II	
										Gen.Surg incl.	
										Anaesthesia	
										Dental disease	
										& Radiology,	
										one quest. On	
										basic & allied	
Surgery	60	60	120	20	100	30	30	60	300	subject	
										Paper I obst.	
										Incl. Social	
										obst. Paper II	
										Gynae. Family	
										Welfare and	
										demography,	
										one quest. On basic & allied	
Ohet & Gynaa	40	40	QΩ	30 30 20 20 40 200							
Oust. & Gyllae	40	40	00	30	30	20	20	40	۷۰۰۰۰	•	
Paediatrics	40		40	10	30	10	10	20	100		
Obst. & Gynae Paediatrics	40	40	40	10	30	10	10	20	100	subject Shall contain one question of basic & allied subject	

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 paraclinical 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 bed side 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, kidneu 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:

- 1. Review of Physiological Chemistry by H. A. Harper.
- 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

- 1. Practical Manual of Biochemistry by S. P. Singh
- 2. Viva & Practical by A. C. Deb
- 3. Manual of Practical Biochemistry by K. P. Sinha

Anatomy

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 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, Inferiro Extermity, 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, splanchology, dectless 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 regulative 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.
- 9. Principles of karyotypeing and identification of gross congenital anomalies.

- 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, lumber 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.

- 1.
- 2.
- 3.

Physiology

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) Physiology Paper I -

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

Cell and its structures, blood and Tissue Fluid, Gastro Intestinal System, Excretion and Kidney, Muscle and Nerve, Endocrine, Reproduction and Family Planning, Temperature regulation and Skin, Stress and its affect on normal Physiology.

(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.

- 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.
- d) Degeneration: Necrosis, Disturbances of circulation Ischaemia, Hyperemia of circulation, Gangrene, Thrombosis, Haemorrhage, Embolism, Shock & Edema.
- 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) <u>C.V.S.</u>
- 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) <u>KIDNEY / LOWER URINARY TRACT</u>

- i) Glomerulonephritis
- ii) Nephrosis
- iii) Renal T.B.

- iv) Pyelonephritis & Cystitis
- v) Hydronephrosis, Tumours & Cysts
- vi) Urinary Calculi.

c) RESPIRATORY SYSTEM

- i) Brochitis, Bronchial asthma, Bronchiectasis.
- ii) Pneuomonia
- iii) Pneumoconiosis
- iv) Abscess & Gangrene
- v) Pulmonary T.B.
- vi) Atelectasis & Collapse
- vii) Emphysema
- viii) Tumour of lungs & disease of pleura.

d) <u>LIVER & BILLIARY PASSAGE</u>

- 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) Hirsehespurng'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) <u>RETICULOENDOTHELIUM SYSTEM</u>

- 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

1) <u>NERVOUS SYSTEM</u>

- i) Meningitis
- ii) Acute Ant. Poliomyelitis
- iii) Syphilis of C.N.S. & Tumours
- iv) Gliomas Tumours of Brain & Spinal Cord.
- 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 Pathollogy
- 2. Practical by Dacie. (Haematological)

3.

Microbiology

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)

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
 - 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 bacterias
 - 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, Complylobacter, 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
- 7. Medical Parasitology by R. L. Ichlupujari & Rajesh Bhatia

- 1.
- 2.
- 3.

Pharmacology

Distribution of Marks:

Written paper - 80 Marks

(Paper I - 40, Paper II - 40)

Oral - 50 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 - 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:- Practical /Clinical:-

- 1. Clinical Pharmacology D.R. Laurence 1. Practical Note Book issued by Patna Medical
- 2. Essentials of Pharmacology K.D. Tripath College, Patna
- 3. Pharmacology & Pharmacotherapeutics 2.
 - R. S. Shatoshkar 3.

FMT

Distribution of Marks:

Written paper - 40 Marks

(Paper I - 40)

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) Burn:- Burns, Scalds, Electricity & Lightening
 - 7) Mechanical Injuries & Wounds:- Classification of Wounds, Examination of Injuries, & Injury report, Regional injuries, Fire arm injuries, Aircraft & Rail injuries
 - 8) Blood, Seminal & other stains:- Hairs, Trace Evidences, Group specific substances, DNA
- ii) Section B:- shall contain questions from the following topics:-
 - 1. Sexual Capacity & Sexual offences:- Pregnancy, Delivery, Abortion, Their Medicolegal importance, MTP, Impotence & Sterility, Artificial Insemination, Virginity, Legitimacy, Natural & Un Natural Sexual Offences, Abnormal Sexual perversions
 - 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 appearences 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

Seeds, Ergot, Nux Vomica, Strychnine, Aconite, Dhatura, Belladona, Cannabis, Cocaine, Oliander, Ratti Seeds, Snakes, Scorpion, Cantharides, Mapping Nut, Madar, Food Poisoning, Barbiturates, Semicarpus Anaedium.

Books Recommended:

Theory:-

- 1. Modi's Medical Jurisprudence and Toxilogy.
- 2. Principles of Forensic Medicine by Apurba Nandy
- 3. Text Book of Forensic Medicine by Krishan Vij Parikh.

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 - 120 Marks

(Paper I - 60, Paper II - 60)

Oral - 10 Marks
Practical - 30 Marks
Internal Assessment - 40 Marks

(Written - 20, Practical - 20)

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:-
 - 1) Demography & Population Dynamics, Health information System & Vital Statistics.
 - 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

4X5= 20 Marks

(Including Community Ophthalmology)

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

ENT

Distribution of Marks:

Written paper - 40 Marks

(Paper I - 40)

Oral - 10 Marks
Clinical - 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 -

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 Adenoldm, Pharyngitis, Pharyngeal abscess and Tumours.
- 4. LARYNX:- Anatomy, Physiology Examination of Larynx, Laryngitis, Hoarseness, Stridar, Neurological, Laryngeal diseases, Tumours.
- 5. TRA CHEO BRON CHIAN TREE:- Anatomy, Physiology Examination of Tracheostomy, Tracheo-Bronchial Foreign Body.
- 6. OESO PHA GUS:- 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 Necic Surgery Dr. S. K. De.
- 4. Diseases of Ear, Nose & Throat Dr. P. L. Dhingra

Practical /Clinical :-

1. Diseases of Ear, Nose & Throat – Dr. P. L. Dhingra

2.

3.

MEDICINE

Distribution of Marks:

Written paper - 120 Marks

(Paper I - 60, Paper II - 60)

Oral - 20 Marks
Clinical - 100 Marks
Internal Assessment - 60 Marks

(Written - 30, Practical - 30)

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.

Surgery

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

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.

- i) Paper I Section A shall contain questions from the following topics
 - a. General Surgery
 - b. Surgery of Organs above Diaphragm
 - 1. Basic Principal of Surgery
 - 2. Wound Tissue repair and scar.
 - 3. Accidents, Emergency Surgery and Warfare Injuries.
 - 4. Acute Resuscitation and support.
 - 5. Nutritional Support.
 - 6. Wound Infection.
 - 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.
 - 14. Scalp.
 - 15. Head Injury.
 - 16. Brain Tumour.
 - 17. Development Anomaly of Face, Palat, Lip & Faciomaxillary Injuries.
 - 18. Mouth Cheek and Tongue.
 - 19. Salivary Glands.
 - 20. Pharynx.
 - 21. Larynx.
 - 22. Neck.
 - 23. Thyroid Gland & Throglossal Tract.

- 24. Parathroid.
- 25. The Breast.
- 26. Oesophagus.
- 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.
 - 4. Disease of Bones and Joints Infections.
 - 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.
 - 8. Disorder of the Growing Skeleton.
 - 9. Disorder of Muscle Tendons and Ligaments.
 - 10. The Hand and the Foot.
 - 11. The Spine, Vertebral Column and Spinal Cord.
 - 12. Metabolic Diseases of the Bones Rickets etc.
 - 13. Nerves and Nerve Injuries.
- iii) Paper II
 - a. Basics of Anaesthesiology, Radiology and Dentistry
 - b. Surgical Diseases of Organs below Diaphragm.
 - 1. The Stomach and Duodemum.
 - 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. Perotoneum, Omentum, Mescentry, Retroperitoneal Space.
 - 7. The small and large Intestine.
 - 8. Intestinal Obstruction in Adult and Child.
 - 9. The Vermiform Appendix.
 - 10. Rectum.
 - 11. Anus and Anal Canal.
 - 12. Hernia Umbilicus, Abdominal Wall.
 - 13. Abdominal Trauma.
 - 14. Urinary System, Investigation of Urinary Tract.
 - 15. Anuria.
 - 16. Haematuria.
 - 17. Retension of Urine.
 - 18. Kidney and Ureter.
 - 19. Urinary Bladder.
 - 20. Prostate and Seminal Vesicle.
 - 21. Urethra and Penis.
 - 22. Testis and Scrotum.
 - 23. Day Care Surgery.
 - 24. Surgical Audit.

Books Recommended:

Theory:-

- 1.
- 2.
- 3.
- D.

- 1.
- 2.
- 3.

Pediatrics

Distribution of Marks:

Written paper - 40 Marks

(Paper I - 40,)

Oral - 10 Marks
Clinical - 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 - (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 –

Birth Asphyxia, Care of new born, Anthropometry and interpretation of growth and development, Normal fluid & electrolyte imbalance in children, Low birth weight babies, Neonatal respiratory distress, Jaundice in new born, Neonatal infection, Neonatal convulsions, PEM and its management, Vitamin deficiencies, Nutritional anemia in infancy & childhood, Acute diarrhea, Hypothyroidism in children, Congestive heart failure-diagnosis & treatment, Congenital heart disease, Rheumatic heart disease, Hypertension in children, including hypertensive emergency, Acute respiratory infection, Bronchial asthma including status asthematicus, Nephritic syndrome, Acute glomerulonephritis & hematuria, Chronic liver disease, Hemolytic anemia including thalassemia, Leukemia, Bleeding & coagulation disorders, Seizure disorders including status epilepticus, Cerebral palsy, Common exanthematous illnesses, Childhood tuberculosis, Fluid & electrolyte balance: pathophysiology & principles of management, Acid base balance, Shock & anaphylaxis, Adolescent growth & normal puberty, Other childhood malignancies (Neuroblastoma, Wilm's tumour, Lymphoma), Coagulation disorders-hemophilia, Mental retardation, Behavioral disorders, Meningitis, Diphtheria, Pertusis, Tetanus, Enteric fever, Immunization, Common childhood poisoning, Down's syndrome, Medical ethics, Pediatric prescription & rational drug therapy.

Books Recommended:

Theory:-	Practical /Clinical :-
1.	1.
2.	2.
3.	3.
4.	

Obstetrics & Gynecology

Distribution of Marks:

Written paper (Paper I - 40, Paper II - 40) - 80 Marks - 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.
 - 6. Puerperium Normal and abnormal.
 - 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.
 - 3. National programme of maternal, child health and family welfare.
 - 4. Common Gynaecological diseases and its management.
 - 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. Menopouse

Books Recommended:

Theory:-

- 1. Hallan & Brew Obstetric
- 2. Shaw Gynaecology
- 3. Dutta Obstetre
- 4. Dutta Gynaecology

- 1. Shaw operative
- 2. Mannual of Clinical problems in obst. & Ghynaecology.