

**BASIC BIOLOGICAL SCIENCE – II**

**Objective :** To provide elementary knowledge of the various systems of the human body and the diseases affecting them.

**Unit – I**

**Disease of Heart :** Cardiac arrest, Heart Block, pericarditis, Valvular diseases – Congestive heart failure, hypertension congestive heart diseases, Angina Pectoris – Myocardial infarction - Pectoralis : major & minor.

Blood Diseases : Anaemia – Leukaemia; Agranulosis; Haemophilia.

Vascular Disease: Arteriosclerosis, Thrombophlebitis, Embolism; Varicose Veins, Aneurysm.

Blood Transfusion: Indicators - grouping & matching RH Factor, Plasma – Precautions in blood transfusion– Blood banks.

**Unit – II**

Gastro -Intestinal System : Diseases of the mouth and Oesophagus - stomatitis, gingivitis, parotids; dental care.

Disease of stomach and intestinal tract: Gastritis, peptic ulcer. Appendicitis, Hernia and fissure, fistula and haemorrhoids.

Urinary And Reproductive System : Diseases of kidney ureter, bladder & urethra, cystitis, phlebitis, Nephritis, tumour, uraemia, injury.

Disease and disorders of female reproductive system and mammary glands - Infections, cysts, fibroids, abortion and ectopic pregnancy; vaginal fistula; mastitis.

**Unit – III**

Musculo Skeletal System : Disorders and diseases of bones and joints, sprains - Dislocation and fracture – Arthritis, osteomyelitis and osteoporosis.

Nervous System : Migraine Headache, Coma, Epilepsy-seizures, neuritis, Sciatica, Paralysis, cerebral embolism, thrombosis, meningitis, abscess and tumours, spinal cord injury, sun stroke, heat exhaustion.

**Unit – IV**

Disease of the Ear and Eye : Ears : Wax formation, foreign bodies, Otitismedia, mastoiditis; Eyes : Conjunctivitis, hypermetropia, hypermyopia, nightblindness, cataract, glaucoma.,

Disease Of the Nose And Throat : Sinusitis, Tonsillitis , Laryngitis.

## Unit V

Endocrine System : Metabolic disorders – Deficiency diseases. Diseases of thyroid, parathyroid – hyper and hypo secretions - metabolic disorders - Diabetes mellitus, obesity.

Disease of the Skin : Burns, Radiation induced burns and scars, plastic surgery, allergy conditions, urticaria, psoriasis, Eczema.

### **BOOKS FOR BASIC BIOLOGICAL SCIENCE I & II**

#### **A. Text Books:**

	<b>AUTHOR</b>	<b>TITLE</b>	<b>PUBLICATION</b>
1.	T.S. Rangnathan	A Text book of Human Anatomy	S. Chand
2.	Sarada Subramanian	Text book of Human Physiology	S.Chand
3.	Ganaa	Physiology	Mc. Graw Hill
4.	Harper	Bio-Chemistry	Mc. Graw Hill
5.	Chaterjee	Bio – Chemistry	Jaypee
6.	Panikar	Micro- Biology	OLM

#### **A. Reference Books**

1.	I.B. Singh	Essentials of Anatomy	Jaypee
2.	I.B. Singh	Text book of Anatomy	Jaypee Volume 1,2,3
3.	Basmajian	Grants Method of Anatomy	B.I. Waverly
4.	Vasudevan	Bio – Chemistry	Jaypee
5.	Sathya Narayana	Bio – Chemistry	Central
6.	Grays	Grays Anatomy	CL
7.	Burton	Micro Biology for Health science	LIPWW
8.	Brooks	Medical Micro Biology	MC Graw Hill
9.	Green Wood	Medical Micro Biological 15 <sup>th</sup> Edition	CLISIC
10.	Ross & Wilson	Anatomy and Physiology in Health and Illness	-
11.	Panikar	Text book of Medical Parasitology	Jaypee
12.	Zeivia	Clinical Parasitology	W.B.S.
13.	Ramik Suid	Colour Atlas of Pathology	Jaypee
14.	Braunslie	Outlines And Review Pathology	Jaypee
15.	Seth	Pharmacology	Bill