Dr. J. J. Magdum Trust's

Dr. J. J. MAGDUM HOMOEOPATHIC MEDICAL COLLEGE



Jaysingpur – 416 101, Tal-Shirol, Dist.- Kolhapur (Maharashtra)

NCH recognized, Affiliated to Maharashtra University of Health Science (MUHS), Nashik.

Phone No.College: (02322) 227083, 229583, Hospital- (02322) 225218

Email id- jjmhmc1990@gmail.com*

**Established year – 1990*

ACADEMIC YEAR 2022-2023 FROM 1ST JANUARY TO 31ST DECEMBER 2022 DEPARTMENT: PHYSIOLOGY

MONTH	TOPIC	No. of Lecture	Teaching And Learning Methods
	1 st January to 25 th April Following work was done Preliminary exam: Last week December and 1 st week of January. Answer paper assessment work (theory and practical) Preparation of result Follow up of exam result General instruction about exam result of preliminary exam 4) Time management 5) presentation 6) Drawing Discussion on some topics of CNS, Embryology and General physiology. From 3 rd to 12 th March students appeared for MUHS Theory examination. From 10 nd to 12 th April students appear for MUHS practical examination. During this period we Lectures of New batch for	Lecture	Methods
	academic year 2021-22 were start from 26 th April 2022.		Dialization de Challe
April	Human body organization, Cellular organization Tissue organization System organization Homeostasis mechanism of the body	4	Blackboard ,Chalk, Reference book, Special charts, Transparences, Slides, Laptop, PPT,
May	General physiology, biophysics and body fluids Biophysics – Bioprinciples Units of concentrations of solutions Ions, electrolyte non electrolyte filtration	3	Small group discussion, Micro teaching, Tutorial, Seminar

MCHARGE PRINCIPAL Dr. J.J. Magdum Homoeopathic Medical College, Jaysingpur. Dist. Kolhapur (Makarashtra)

MONTH	TOPIC	No. of Lecture	Teaching And Learning Methods
	Digestive system physiology		Blackboard, Chalk, Reference book,
	Anatomical consideration of the digestive system		Special charts,
	Functions of digestive system		Transparences, Slides,
	Salivary glands	10	Laptop: PPT,
June	Mastication, Deglutition Digestion	12	Small group discussion,
	Stomach Functions of stomach		Micro teaching,
	Composition & Functions of gastric juice		Tutorial, Seminar
	Movements of stomach digestion		
July	secretion Composition and functions of pancreatic juice, Digestion Character and Small intestine pancreas - mechanism of pancreatic composition of success entricus Mechanism of secretion of success entricus digestion Bile composition of bile function of bile ,bile salt/bole pigment Movement of alimentary canal, movement of small intestine, movement of large intestine Hormones of gastric secretion Tutorial on GIT Seminar on GIT Digestion and absorption of CHO, protein, lipids	12	
August	Respiratory system physiology Introduction of respiratory system Mechanism of Breathing Motor on of Ribs Spirometry Lung volumes & capacities Respiratory dead space 02 – transport 02 – dissociation curve Carbon dioxide transport Control of respiration Nervous control & Chemical control Hypoxia Dysponea Dysbarism Asphyxia Cynosis Methods of artificial respiration	12	

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Medical College, Jaysingpur.
Dist. Kolhapur (Ma≮arashtra)

MONTH	TOPIC	No. of Lecture	Teaching And Learning Methods
	CNS physiology		Blackboard, Chalk,
	Neurons		Reference book,
	Properties of nerve fibres		Special charts,
	Sunapse		Transparences, Slides,
	Reflex		Laptop: PPT,
	Receptor		Small group
	Brain stem		discussion, Micro teaching,
Cantomban	Medulla oblongata		Tutorial, Seminar
September	Pons	12	**************************************
	Midbrain		
	Cerebrum		
	Thalamus		
	Hypothalamus		
	Cerebral cortex		
	Basal ganglia		
	Limbic system		
	Ascending tract		
	Descending tract		
	Upper and lower motor lesions		
October	Revision	12	
	Tutorial CNS		
	Seminar CNS		
	ANS		
	Nurve muscle physiology		
	Skeletal Muscle Mechanism of contraction		
	Neuromuscular junction Characteristic		
November	Properties of skeletal muscles Characteristic	∃	
November	Properties of skeletal muscle Nerve muscle	5	
	physiology.		
	Tutorial NMP		
	Seminar NMP		
	Special Senses Vision		
	introduction – Ear	-	
	Middle ear	_	
	internal ear	-	
	Cochlea	-	
	Organ of corti	-	
	Auditory pathway Deafness	-	
December	Test for deafness rinnes & webers test	10	
	Taste (Gustation) –Tongue to.	-	
	Taste buds	7 1	
	Gustatory pathway		
		-	
	Gustatory pathway Olfaction – Introduction factory receptors Physiology of Olfaction Olfactory pathway		0

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Dr. J.J. Magdum Homoeopathic
Medical College, Jaysingpur.
Diat. Kothapur (Martashtra)

DR. J.J. MAGDUM HOMOEOPATHIC MEDICAL COLLEGE & HOSPITAL, JAYSINGPUR

Academic year: From 1stJanuary 2022 to 31st December 2022

Department of : physiology. Academic planner / Advance Teaching Plan

Sr. No.	Details	Total number in Hours		
1	Lecture	233		
2	Symposium	-		
3	Practical \ Clinic	245		
4	Inter departmental seminars	-		
5	Seminars	09		
6	Case presentation \Tutorial	12		
7	Journal club	-		

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Or. J.J. Magdum Homoeopathic Medical College, Jaysingpur. Dist. Koll. and (M. * areshtra)

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Established year − 1990

ACADEMIC YEAR 2022-2023

FROM 1st JANUARY To 31st DECEMBER 2022

DEPARTMENT: PHYSIOLOGY

1st BHMS

1st January to 25th April Following work was done Preliminary exam: Last week December and 1st week of January. Answer paper assessment work (theory and practical) Preparation of result Follow up of exam result General instruction about exam result of preliminary exam 1) Time management 2) presentation 3) Drawing Discussion on some topics of CNS, Embryology and General physiology. From 3rd to 12th March students appeared for MUHS Theory examination. From 10nd to 12th April students appear for MUHS practical examination. During this period we Lectures of New batch for academic year 2021-22 were start from 26th April 2022. Blood Composition functions of blood Plasma proteins and its functions Functions of plasma protein ESR significance OF ESR Cagulation of blood importance of homeostasis Blood volume and it's regulations		1st BHMS	(4)	
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Answer paper assessment work (interpretation) Preparation of result Follow up of exam result General instruction about exam result of preliminary exam 1) Time management 2) presentation 3) Drawing Discussion on some topics of CNS, Embryology and General physiology. From 3 rd to 12 th March students appeared for MUHS Theory examination. From 10 nd to 12 th April students appear for MUHS practical examination. During this period we Lectures of New batch for academic year 2021-22 were start from 26 th April 2022. Blood Composition functions of blood Plasma proteins and its functions Functions of plasma protein ESR significance OF ESR Coagulation of blood importance of homeostasis Blood volume and it's regulations		Preliminary exam:		
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Follow up of exam result General instruction about exam result of preliminary exam 1) Time management 2) presentation 3) Drawing Discussion on some topics of CNS, Embryology and General physiology. From 3 rd to 12 th March students appeared for MUHS Theory examination. From 10 nd to 12 th April students appear for MUHS practical examination. During this period we Lectures of New batch for academic year 2021-22 were start from 26 th April 2022. Blood Composition functions of blood Plasma proteins and its functions Functions of plasma protein ESR significance OF ESR Coagulation of blood importance of homeostasis Blood volume and it's regulations April Coagulations Tutorial ,Seminar ,		practical)		
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1) Time management 2) presentation 3) Drawing Discussion on some topics of CNS, Embryology and General physiology. From 3 rd to 12 th March students appeared for MUHS Theory examination. From 10 nd to 12 th April students appear for MUHS practical examination. During this period we Lectures of New batch for academic year 2021-22 were start from 26 th April 2022. Blood Composition functions of blood Plasma proteins and its functions Functions of plasma protein ESR significance OF ESR Coagulation of blood importance of homeostasis Blood yolume and it's regulations		General instruction about exam		
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April students appear for the examination. During this period we Lectures of New batch for academic year 2021-22 were start from 26 th April 2022. Blood Composition functions of blood Plasma proteins and its functions Functions of plasma protein ESR significance OF ESR Coagulation of blood importance of homeostasis Blood yolume and it's regulations Blackboard, Chalk, Reference book, special charts, Transparences, Slides, Laptop: PPT, Small group discussion, Micro teaching, Tutorial, Seminar,	1	From 3 rd to 12 rd March students appear to 12 rd	h	
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examination. During this period we Lectures of New batch for academic year 2021-22 were start from 26 th April 2022. Blood Composition functions of blood Plasma proteins and its functions Functions of plasma protein ESR significance OF ESR Coagulation of blood importance of homeostasis Blood yolume and it's regulations Blood volume and it's regulations Blood New batch for 26 th Reference book, special charts, Transparences, Slides, Laptop: PPT, Small group discussion, Micro teaching, Tutorial, Seminar,	T.	April students appear for many		
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April 2022. Blood Composition functions of blood Plasma proteins and its functions Functions of plasma protein ESR significance OF ESR Coagulation of blood importance of homeostasis Blood yolume and it's regulations Blackboard, Chalk, Reference book, special charts, Transparences, Slides, Laptop: PPT, Small group discussion, Micro teaching, Tutorial, Seminar,		During this period we Lectures of New John 26	5 th	1
April 2022. Blood Composition functions of blood Plasma proteins and its functions Functions of plasma protein ESR significance OF ESR Coagulation of blood importance of homeostasis Blood volume and it's regulations Blood volume and it's regulations Blood Composition Reference book , special charts , Transparences , Slides , Laptop : PPT , Small group discussion, Micro teaching , Tutorial ,Seminar ,		academic year 2021-22 were start		Challe
April Blood Composition functions of blood		April 2022.		Blackboard, Chark,
functions of blood Plasma proteins and its functions Functions of plasma protein ESR significance OF ESR Coagulation of blood importance of homeostasis Blood yolume and it's regulations Transparences , Slides , Laptop : PPT , Small group discussion, Micro teaching , Tutorial ,Seminar ,		Blood Composition		special charts
Plasma proteins and its functions Functions of plasma protein ESR significance OF ESR Coagulation of blood importance of homeostasis Blood yolume and it's regulations Slides, Laptop: PPT, Small group discussion, Micro teaching, Tutorial, Seminar,		Constions of blood	<u> </u>	Transparences ,
Functions of plasma protein ESR significance OF ESR Coagulation of blood importance of homeostasis Blood yolume and it's regulations	April	Plasma proteins and its functions	\dashv	Slides,
May ESR significance OF ESR Coagulation of blood importance of homeostasis Blood volume and it's regulations Shan grow Micro teaching, Tutorial, Seminar,		Functions of plasma protein		Laptop : PPT,
May Significance OF ESR Coagulation of blood importance of homeostasis Blood volume and it's regulations Tutorial ,Seminar ,				Small group discussion,
May Coagulation of blood importance of homeostasis Blood volume and it's regulations		gignificance OF ESR	3	Micro teaching,
importance of homeostasis Blood volume and it's regulations		Georgiation of blood		Tutoriai ,Seiimai ,
Blood volume and it's regulations	May	Coagulation of orest		
Blood volume and reserve		mportance of nomeostations		
		Blood volume and 122 and		a

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MONTH	TOPIC	No. of Lecture	TEACHING AND LEARNING METHODS
	Bone marrow, functions of bone-marrow Formed elements of blood, RBC -		Blackboard, Chalk, Reference book,
	erythropoiesis,		special charts,
ugu	factor affecting erythropoiesis	10	Transparences,
June	Haernoglobin - synthesis, types and functions	12	Slides,
	Anemia - cause types and clinical importance		Laptop: PPT, Small group discussion,
	White blood corpuscles		Micro teaching,
	Thrombocytes, functions of platelets		Tutoria: ,Seminar ,
	Blood group and different types		100
	Rh-blood group		
	Hazards of mismatched blood transfusion	. 7	
	Erythroblastosis foetalis		
	Body fluids		
Tables	Cadio vascular system physiology		
July	Anatomical consideration of heart, valves of		62
	heart Histology of cardio-vascular systems		· .
	Special junctional tissue of heart	6	Ĭ.
	Heart block		1
	Basic Properties of cardiac muscle and it's		.15 .15
	Structure		
	Cardiac cycle		it.
	Heart sounds		
	ECG - introduction		
	ECG - leads, waves,		€.
August	Nerves of heart and their actions	12	И
	Heart rate & it's regulation		
	Cardiac output and it's regulation		
	Measurement and recording of blood pressure		
	Regulation of blood pressure		
	Radial pulse	, 5	
	Coronary circulation		
	Cerebral circulation		
	Pulmonary circulation and hepatic circulation		
September	Excretion physiology		_
	Kidneys		
	Juxtaglomerular apparatus	7	
	Renal blood flow	-	
	Function of kidney and glomerulus	-	

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MONTH	TOPIC	No. of Lecture	TEACHING AND LEARNING METHODS
	Selective reabsorption		Blackboard, Chalk,
	Tubular secretion		Reference book,
	Formation of new substances		special charts,
	Renal functional test		Transparences,
	Volume and characteristic of urine		Slides,
	Glycosuria		Laptop: PPT,
	Micturation		Small group discussion,
	Mechanism of micturation		Micro teaching,
October	Reaction of urine	10	Tutorial ,Seminar ,
Cettober	Factors controlling volume of urine	-	Tutoriar ,Seminar ,
	Abnormal volume of urine		
	Body temperature and skin		
	Factors affecting body temperature		
	Regulation of body temperature thermogenesis		
	Thermolysis		
	Nervous system and thermotaxis, Pyrexia		
	(Fever) Structure of skin and its function		
	Reproductive system physiology		
November	Reproductive physiology male	5	
November	Testosterone / puberty		
	Spermatogenesis		11
	Reproductive physiology - Female		Э
D 1	Estrogen / Progesterone	7	
December	Menstrual cycle	7	
	Sex determination & Sex differentiation		

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ACADEMIC YEAR 2022-2023

FROM 1st JANUARY TO 31st DECEMBER 2022

DEPARTMENT: PHYSIOLOGY

1st BHMS

MONTH	TOPIC	No. of Lecture	Teaching And Learning Method
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APRIL	General physiology Dialysis Surface tension Adsorption Hydro trophy Donnan equilibrium	3	Blackboard ,Chalk , Reference book , Special charts , Transparences , Slides , Laptop : PPT , Small group discussion Micro teaching ,
MAY	Colloid Diffusion Osmosis Ultra filtration Electrolyte Non electrolyte	3	Tutorial ,Seminar

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MONTH	TOPIC	No. of Lecture	Teaching And Learning Method
	Biochemistry physiology	9	Blackboard, Chalk,
	Introduction		Reference book,
	Carbohydrate classification		special charts,
	Digestion and absorption		Transparences, Slides,
JUNE	Metabolism		Laptop: PPT,
	Kreb's cycle		Small group discussion,
	Endocrine influence on CHO, metabolism regulation		Micro teaching,
	of CHO metabolism		Tutorial ,Seminar
	Lipid classification		Blackboard, Chalk,
	Essential fatty acid steroids		Reference book,
	Digestion and absorption		special charts,
	Metabolism B-oxidation of fatty acids	4	Transparences, Slides,
	Bio synthesis of lipid] *	Laptop: PPT,
	Regulation of lipid metabolism		Small group discussion
	Protein classification		Micro teaching,
	Essential amino acids		Tutorial ,Seminar
	Vitamins and co-enzymes		
	Digestion and absoption		
	The process of protein synthesis		
JULY	Vitamins		
	Fat soluble	1	
	Vit D	7	
	Vit E		
	Vit K		
	Water soluble		
	Thiamine vit B1		
	Ribotiavin vit B2		
	Niacin vit B3		
	Pyridoxine vit B6		
	Pantothenic acid vit B5		1 61 11
August	Vit B 12		Blackboard ,Chalk , Reference book , special charts ,
	Rickets		
	Scurvy beriberi		Transparences,
	Osteomalacia	4	Slides,
	Pernicious anemia		Laptop: PPT,
	Enzymes and co enzymes		Small group discussion
	Introduction definition		Micro teaching,
	Classification properties		Tutorial ,Seminar
	Co-enzymes A		
	Summary of protein /fat/CHO. Metabolism		
	Summary of vitamins		
	Tutorial on metabolism		
	Seminar on vitamins		
	Nutrion		
	Food vs Nutrion		
	Constituents of normal diet		
	Nutritional needs of the body in terms of calories	5	
	Balance diet		
	Principle of diet planning		1 (h)
	Applied aspect obesity, kwashiorkor, marasmus		ARGE PRINCIPAL

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MONTH	TOPIC	No. of Lecture	Teaching And Learning Method
	Special senses physiology	Lecture	Blackboard ,Chalk ,
	Eye ball- layers		Reference book,
	Innermost layer –retina	_	special charts,
	Optic –pathway		Transparences,
September	Lesion of optic pathway	10	Slides,
September	Mechanism of accommodation	_ 10	Laptop: PPT,
	Visual transduction		Small group discussion
	Visual acuity error of refraction		Micro teaching,
	Abnormalities of olfactory sensations		Tutorial ,Seminar
	Spleen and lymph physiology		
	Structure of spleen	-	
	Function of spleen	-	
	Clinical aspect related to spleen	-	
	Lymphatic capillaries	-	
	Composion of lymph		
	Formation of lymph		
October	Lymph node /lymph gland Lymph gland- structure	— 10	
		-	
	Functions of lymph node	-	
	Clinical aspect or physiological importance Of lymph		
	Reticuloendothelial system introduction		
	Classification of RES		
	Description of types of macrophage system Function of RES	-	
November		6	-
November	Endocrine system physiology Introduction, harmones	- 0	
	Negative and positive feed		
	Back mechanism		
	Anterior and posterior pituitary		
	Anatomy /histology		
	Anterior pituitary harmone	-	
	Growth harmone		
	Applied physiology		
	Diabetes Insipedus	-	
December	Thyroid gland		-
December	Anatomical physiology		
	Synthesis of harmones		
	Functions of harmones		
	Applied physiology		49 47
	Hyper thyroidism hypo- thyroidism		
	Parathyroid harmones		
	Calcium metabolism and regulation of serum calcium	_	
	Applied physiology		
	Adrenal glands	14	
	Adrenal cortex		
	Action /function of – glucocorticoids		
	Action / function of - glucocorticolds		I .
	Mineral corticoids ,androgen Applied physiology		^
	Mineral corticoids ,androgen		\land
	Mineral corticoids ,androgen Applied physiology		
	Mineral corticoids ,androgen Applied physiology Adrenal medulla		

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