

Padmashree Dr. D. Y. Patil College of Nursing

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Basic B.Sc. Nursing I Year

Subject code: 1 Subject: PHYSIOLOGY

Faculty: Ms. MONIKA BAGCHI (Internal Faculty)

UNIT	Торіс	No.of	Lecture
ONTI	Торіс	lecture	serial no.
Cell Physiology	 Tissue formation and repair., Membranes and glands functions 	1	1
	Alteration in disease & Application in nursing	1	2
Blood	Composition and functions of blood	2	3-4
	 Classification of blood cells Blood groups, blood coagulation. 	2	5-6
	 Hemoglobin:Structure, synthesis and breakdown, variations of molecules, etimation. 	2	7-8
Lymphatic & immuniological	Circulation of lymph, Immunity, Formation of T cells & B Cells	1	9
	Types of immune & response., Antigens, Cytokines	1	10
system.	Antibodies	1	11
	Neuro muscular transmission	1	12
Muscular System	 Stimulus and nerve impulse definitions and mechanisms. 	1	13
	Physiology of muscle contraction	1	14
	Alterations in disease.	1	15
	Functions of Respiratory organs	1	16
The Respiratory System	Physiology of Respiration. Pulmonary ventilation, Volume	1	17
	 Mechanics of respiration. Gaseous exchange in lungs, Carriage of Oxygen and carbon dioxide. 	1	18
	Exchange of gases in tissues.	1	19
	Regulation of respiration.Alterations in disease	1	20

The Digestive System	Functions of organs of digestive tract.	1	21
	Movements of alimentary tract.	1	22
	Digestion in Mouth, stomach, small intestine, large intestine.	1	23
	Absorption of food.	1	24
	Functions of liver, Gall bladder & pancreas	2	25-26
Circulatory System	 Functions of heart, conduction, cardiac cycle, circulation• Principles, control, factors influencing B.P and pulse 	4	27-30
	Alterations in disease	4	31-34
The Excretory System.	Functions of kidneys, ureters , urinary bladder and urethra	1	35
	Composition of urine.	1	36
	Mechanism of Urine formation. Structure & Functions of skin.	1	37
	Regulation of body temperature. Fluid and electrolyte balance	1	38
	Alteration in disease.	1	39
	 Functions of pituitary ,thymus, thyroid, Parathyroid 	1	40
Forder of the Contract	(Calcium Metabolism	1	41
Endocrine System	Pancreas,	1	42
	Supra renal Glands.	1	43
	Alteration in disease	1	44
	Functions of neurolgia and neurons	1	45
Nervous System	 Functions of brain, spinal cord, and cranial and spinal nerves. 	2	46-47
	Cerebrospinal fluidcomposition, circulation and function	1	48
	Reflex arc, reflex action and reflexes Muscle tone and posture	1	49
	Autonomic functionsPain: somatic, visceral and referred	1	50
	Autonomic learning and biofeedback	1	51
	Alterations in disease	1	52

Sensory Organs	Functions of skin, eye, ear, nose & tongue.	2	53-54
	Alterations in disease	2	55-56
Skolotal system	Bone formation and growth	2	57-58
Skeletal system	• Bones	1	59
	Joints	1	60

Paper -1, Subject -Anatomy, Duration -1.5HRS

EVALUATION:

SR NO	EXAMINATION	MARKS	TOTAL
1.	Unit test I	13	
	(combined with anatomy 12 marks)		
2.	Unit test II	13	
	(combined with anatomy 12 marks)		150
3.	Prelim	38	
	(combined with anatomy 37 marks))		
4.	Journal	25	
5.	External Assessment (Theory)		
	(University Examination)	38	
	(combined with anatomy 37 marks)		100
6.	Internal Assessment	25	

REFERENCES:

- 1. Waugh, Anne (2003), "Ross & Wilson's Anatomy & Physiology in health & illness" 10th ed., Churchill Livingstone.
- 2. Anthony & Thibodcon (2000), "Anatomy & Physiology for nurses" 11th ed., C.V. Mosby Co., London.
- 3. Greig, Rhind, "Riddle's Anatomy & Physiology", 7th ed., Churchill Livingstone.
- 4. Singh, I. B. (2005), "Anatomy & Physiology for nurses", 1st ed., Jaypee.
- 5. Tortora, (2003), "Principles of Anatomy & Physiology," 10th ed., Wiley inter.