1981/82

SAULT COLLEGE - DIPLOMA NURSING CLINICAL NURSING THEORY

e) describe the blood supply of

the heart.

NURSING

YEAR I, SEMESTER II

UNIT:

BIOLOGY

ОВЈ	JEC:	rive	ESPECIAL DEFENDABLE CONTRACTOR	LEARNING PESOURCES	
В.		rcu:	State and the	f) explain the structuration of arteries, capilla	
		a)	define the words associated with the Circulatory System	Read Chapter 10	
		b)	hlood		
		c)	state the normal values in the human body of the following:		
			ii) leukocytes iii) thrombocytes iv) hemoglobin		
		d)	describe the adaptive mechanisms of hemostasis		
		e)	discuss clotting time, bleeding time & prothrombin time.		
		f)	describe the ABO blood group system on the basis of their antigen-antibody components.	tit vessels	
		g)	describe the Rh factor		
		h)		c) describe lymphatic of continued the struct location of furction spiece, tonsils & t	
	2.	Hea	art & Blood Vessels		
		a)	describe the structure and function of the heart.	s Lymphatic Systems	
		b)	trace the flow of blood through the heart & lungs from Superior & Inferior vena cavae to the	a) describe the embryo b) describe the effect c) discuss ways to imp	
		c)		during the eqine pr	
		d)	describe the nervous control of the heart.		

SAULT COLLEGE - DIPLOMA NURSING

CLINICAL NURSING THEORY

NURSING

YEAR I, SEMESTER II

UNIT:

1987, 82

BIOLOGY

OBJEC	TIV	ES CALMIDERS DINIMARI	LEARNING PESOURCES
	f.)	explain the structural characteristics & the functions of arteries, capillaries and veins.	troulatory a tymphatid Sys
	g)	identify major arteries and veins in the human body.	a) define the words asso
	h)	describe portal circulation.	
	i)	describe pulmonary circulation	
	j)	describe systemic circulation by tracing the flow of blood from the heart to different areas of the body & back again.	
3.	Ly	mphatic System	
	a)	define the words associated with the Lymphatic System.	
	b)	describe the structure, location & function of parts of the lymphatic system.	Read Chapter 11
		IV) Hodes	
	c)	describe lymphatic circulation	
	d)	describe the structure, location & function of the spleen, tonsils & thymus.	
4.	and the latest designation of the latest des	velopment of the Circulatory Lymphatic Systems	
	a)	describe the embryonic develop-	
	b)	describe the effects of aging	
	c)	discuss ways to improve life	

during the aging process.

SAULT COLLEGE - DIPLOMA NURSING

CLINICAL NURSING THEORY

NURSING

YEAR I, SEMESTER II

IINTT:

BIOLOGY

OBJ	JEC	TIVES	LEARNING PESOURCES
C.	Re	spiratory System	medeye yanlan em .e.
	1.	Define the words associated with the respiratory system.) Define the words associated the uninary system.
	2.	Describe the structure, location & function of the organs of the respiratory system.	Read Chapter 12
		a) nose b) pharynx c) larynx d) trachea e) bronchi f) lungs	
	3.	Discuss the function of the diaphragm, intercostal muscles, ribs & sternum in the act of ventilation (breathing)	
	4.	Describe the mechanisms involved in inspiration and expiration	
	5.	Explain the process of gas exchange:	
		a) external respiration b) internal respiration	
	6.	Explain the transportation of O2 & CO2	Review Pulmonary circulation
	7.	Describe the control of respirations:	
		a) nervous stimuli b) chemical & pressure stimuli	
	8.	Explain the importance of cardio- pulmonary resuscitation.	. Tion
	9.	Development of the respiratory System:	
		a) describe the embryonic develop- ment	
		b) describe the effects of aging	

SAULT COLLEGE - DIPLOMA NURSING CLINICAL NURSING THEORY

NURSING

YEAR I, SEMESTER II

UNIT:

BIOLOGY

ОВ	JEC'	TIVES TO SEE THE SECOND
D.	Th	e Urinary System
	1.	Define the words associated with the urinary system.
	2.	Describe the structure, location & function of the organs of the urinary system.
		a) kidneys b) ureters c) urinary bladder d) urethra
	3.	Describe the blood and nerve supply.
	4.	Describe the structure & function of the nephron.
	5.	Describe the process of urine formation.
		a) glomerular filtration b) tubular reabsorption c) tubular secretion
	6.	Explain aldosterone and A.D.H. influence on the kidneys.
	7.	Describe the physical characteristics of normal urine.
	8.	Discuss the normal & abnormal constituence of urine.
	9.	Describe the process of micturition
	10.	Development of the Urinary System a) describe the embryonic develop- ment
		b) describe the effects of aging

c) discuss ways to improve life during the aging process.

LEARNING PESOURCES Read Chapter 14

entitions ent of the set

SAULT COLLEGE - DIPLOMA NURSING CLINICAL NURSING THEORY

NURSING

YEAR I, SEMESTER II

IINTT:

BIOLOGY

_	OB	JEC	TIVES	LEARNING PESOURCES		
_		Fl	uid, Electrolytes & Acid-Base	Read Chapter 16		
		1.	Balance.	strokersettel sy		
		2.	Describe the body fluid compart- ments.			
		3.	Describe water percentage according to age & amount of fat present.			
		4.	Describe fluid intake & output.			
		5.	Differentiate between electrolytes and nonelectrolytes.			
		6.	Describe electrolyte concentration and distribution in the fluid compartments.			
		7.	Explain the functions & regulations of the major electrolytes.	tube the lotation action and the action of the exercise		
		8.	Describe the movement of fluid between the three body fluid compartments.	nuyara a dies		
		9.	Describe the mechanisms which regulate body fluids.			
		10.	Explain the buffer systems in maintaining the acid-base balance of the body.			
		11.	Explain the roles of the respiratory & urinary systems in maintaining a normal acid-base balance.	ribe the digrative they relate to the c eacty precess of the eacted cyatem.		
		12.	Describe briefly respiratory acidosis and alkalosis.			

13. Describe briefly metabolic acidosis

and alkalosis.

MURRET

SAULT COLLEGE - DIPLOMA NURSING CLINICAL NURSING THEORY

NURSING

YEAR I, SEMESTER II

511.

UNIT: BIOLOGY

c) absorption d) defecation

OBJECTIVES			LEARNING PESOURCES	
F.		e Gastrointestinal (Digestive)	Read Chapter 13	
	1.	Define the words associated with the gastrointestinal system.	Dailouras abitov seir saviac Planta Liberrolytas & Act	
	2.	Describe the location, structure & functions of the organs of the digestive system.	Belinde. Describe the body fluid d	
		a) mouth (oral cavity)		
		b) pharynx c) esophagus	the wo age & amount of ra	
		d) stomach		
		f) large intestine (colon)		
	3.	Discuss the structural layers of the gastrointestinal tract.		3
	4.	Describe the location, structure & functions of the accessory organs of the gastrointestinal system.		
		a) teeth & tongue		
		b) salivary glands		
		c) liver		
		d) gall bladder		
		e) pancreas		
				. 02
	5.	Describe the digestive processes as they relate to the organs and accessory organs of the gastro-intestinal system.		ir -
		a) mechanical digestion		
		b) chemical digestion		

SAULT COLLEGE - DIPLOMA NURSING

CLINICAL NURSING THEORY

NURSING

YEAR I, SEMESTER II

UNIT: BIOLOGY

	OBJEC'	TIVES TO SUCCESS TO A SUCCESS TO	LEARNING PESOURCES
	6.	Describe the absorption from the stomach, small intestine and large intestine.	adadaong (y)
	7.	Describe the circulation of absorbed food stuffs in blood & lymphatics.	. cents . Cestrics the components
	8.	Describe the normal composition & characteristics of feces.	
	9.	Describe the metabolic processes of fats, carbohydrates and proteins.	specification and singless .
		a) anabolism of each	
		b) catabolism of each	
	10.	Describe the relationship of foods to body heat.	Relate to Metabolic rate at variou ages.
	11.	Describe the mechanisms of heat gain and loss.	
	12.	Development of the Gastrointestinal System.	abnaip s'niiodrass o
		a) describe the embryonic development	
		b) describe the effects of aging	
		c) discuss ways to improve life during the aging process.	
	G. The	Reproductive System	Read Chapter 17
	1.	Define the words associated with the reproductive system.	8. Describe how the stero ovaries are supported pelvic cavity.
	2.		o. Identify the major mus catingum and discuss t
		a) scrotum	
		b) testes	
0		c) epididymis	
		d) vas deferens	
		e) seminal vesicle	
		f) ejaculatory duct	

MISEUM

SAULT COLLEGE - DIPLOMA NURSING

CLINICAL NURSING THEORY

NURSING

YEAR I, SEMESTER II

UNIT:

BIOLOGY

	g) prostate		1
	h) bulbourethral glands		
	i) penis		
	j) urethra		
		di ejiluja bool badinado	
3.	Describe the components and production of seminal fluid.	nace Lagran and address.	
4.	Describe the structure of the		
	spermatozoa.		
5	Euplain the hormonal control of		
٥.	Explain the hormonal control of the male sex characteristics &	. Enlad	
	the reproductive functions.		
6	Describe the nervous control of		
0.	the male reproductive organs.		
7	Personiles the least in		
/ -	Describe the location, structure & function of the female organs		
	of reproduction.		**
	a) vagina		
	b) Bartholin's glands		
	c) uterus		
	d) fallopian tubes		
	e) ovaries		
	II hallned's bleet		
8.	Describe how the uterus and		
	nelvic cavity		
	pervie daviey.		
9.	Identify the major muscles of the		
	perineum and discuss their function.		
10.	Describe the structure of the ova	ads 510k (6	
11.	Explain the hormonal control of		

and the reproductive functions.

1981/82

SAULT COLLEGE - DIPLOMA NURSING CLINICAL NURSING THEORY

NURSING

YEAR I, SEMESTER II

UNIT:

I MAI

BIOLOGY

OBJECTIVES

LEARNING PESOURCES

- 12. Explain the menstral cycle when:
 - a) fertilization does not occur
 - b) fertilization does occur
- 13. Describe the nervous control of the female reproductive organs.
- 14. Development of the Reproductive System.
 - a) describe the embryonic development
 - b) describe the effects of aging
 - c) discuss ways to improve life during the aging process.

H. Development and Inheritance

- Describe the process of gamete formation.
 - a) chromosome number
 - b) spermatogenesis
 - c) oogenesis
- Discuss the process of sexual intercourse.
- 3. Identify the bones, landmarks and measurements of the pelvis.
- 4. Discuss the changes that occur to the articulations and ligaments of the pelvis during pregnancy.
- 5. Describe the 4 types of female pelvis:
 - a) gynecoid
 - b) anthropoid
 - c) android
 - d) platypelloid

C. Die

SAULT COLLEGE - DIPLOMA NURSING

CLINICAL NURSING THEORY

NURSING

YEAR I, SEMESTER II

UNIT:

BIOLOGY

the newborn.

OBJEC	TIVES	LEARNING PESOURCES
6.	Discuss the implications of the pelvis in the mechanism of dela	very. secb noldssallmed (s 1472)
7.	Discuss the sequence of events involved in pregnancy.	The second does not set to the control of
	a) fertilization	
	b) implantation	Turbane and ha theman and Al
	c) embryonic growth	A plain i Skatem
	d) fetal growth	the second of th
	a) lecal growen	shengolevel
8.	Describe the development of the placenta.	a toping and policy of
	placenta.	
9.	Describe movement across the placenta.	and water the agency trock and
10.	Describe & state the function of the amnion and chorion.	of sometiment bas them of available
11.	Describe fetal circulation	formation
12.	Discuss the hormones of pregnar	acy sizenepodemiege (d
13.	Describe the signs of pregnancy	o codewers
	a) presumptive b) probable	2. Discuss the process of sex
	c) positive	a Identify the bones, landle
14.	Discuss the physiological chang of the body during pregnancy.	and and the annual contract of the contract of
15.	Determine the significance of to following essential factors in process of labour (4 P's - Psychology)	the
	power, passenger, passageway)	5. Describe the 4 types of
16.	Define, describe & explain the 4 stages of labour.	a) gynedoid b) anthropoid
17	Degaribe the verniseters	
1/.	Describe the respiratory and cardiovascular adjustments of	bidibas (o
	the newborn	d platypellotd

CLINICAL NURSING THEORY

NURSING

YEAR I, SEMESTER II

martm.

BIOLOGY

OBJECTIVES 18. Discuss the potential hazards to the developing embryo & fetus. a) chemicals & drugs (include caffeine, alcohol) b) irradiation c) cigarette smoking d) poor nutrition 19. Explain the physiology of lactation. 20. Discuss basic concepts of the passage of hereditary traits. 21. Discuss the inheritance of sex and X-linked inheritance. 22. Describe the common methods of birth control.

LEARNING PESOURCES

END OF SEMESTER 2.