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FIRST YEAR B.Sc. NURSING DEGREE EXAMINATION - SEPTEMBER 2011 SUBJECT: ANATOMY AND PHYSIOLOGY (BSN 101)

Thursday, September 15, 2011

Time: 10:00 – 13:00 Hrs.	Max. Marks: 75

Answer Section 'A' and Section 'B' In Two Separate Answer Books.

	SECTION "A": ANATOMY: 37 MA	RKS	
1.	Write briefly on:		
1A.	Describe the thyroid gland.		
1B.	Describe the right atrium.		
1C.	Describe the urinary bladder.		
	Welconserved the military of the test to desect oxidation?		$(5\times3=15 \text{ marks})$
	W. it all and an area and af the following:		
2.	Write short notes on each of the following:		
2A.	Arch of aorta.		
2B.	Hyaline cartilage.		
2C.	Cerebrospinal fluid. Testis.		
2D. 2E.	Microscopic structure of the spleen.		
2F.	Tongue.		olegicin della W 44
2G.	Mitochondria.	10	
			$(2\times7=14 \text{ marks})$
3.	Choose the single best response for the following:		
3A.	Shoulder joint is which variety of synovial joint? a) Ball and socket type b) Pivot type c) Hin	ge type	d) Saddle type
3B.	Epiglottis is an example for which of the following? a) Hyaline cartilage b) Elastic cartilage c) Fibrous cartilage d) Dense connective tis	sue	
3C.	All are the parts of fallopian tube, except:	ple Berthin	
50.	a) Isthmus b) Ampulla c) Fimbria	d)	Cervix
3D.	Lymphoid follicle of a lymph node contains predominantly	which of the	e following cells?
	a) Monocytes b) RBC's c) Lymphod	cytes d)	Chondrocytes
3E.	Urinary bladder is lined by which of the following epithelia	>	
J1	a) Columnar b) Cuboidal c) Squamou		Transitional
3F.	Taeniae coli are present in which of the following?		
	a) Transverse colon b) Jejunum c) Du	odenum	d) Ileum

3G.	Whice a)	ch of the following Sciatic	lowing ner		resent in		wer limb? Ulnar	d)	Median
3Н.	Area a)	number 17 Visual	belongs to b)		of the fol		g? Hearing	d)	Taste
31.		wing are ea Malleus				c)	Stapes	d)	Patella
3J.	Card a) c)	iac muscle f Striations Branching		b) I	ntercalat	ed disc			
3K.	Axill a)	ary artery is Brachial	the contin		of which avian		following arterie Radial		Ulnar
3L.	In ad a) c)	ults spinal c Lower bord Upper bord	der of L1	ŀ	o) Lov	ver bor			
3M.	Nissl a)	granules ar Muscle			of the fo			d)	Osteocytes
3N.	Whice a)	ch of the foll Ulnar			ply the dery		muscle? Median	d)	Musculo cutaneous
30.		h of the foll Rectum					ine? Sigmoid colon	d)	Caecum
3P.	Whice a)	ch of the foll Fibroblast	owing cell b)		volved ir nocytes	n synth	esis of collagen to c) Plasma ce		d) Macrophages $(\frac{1}{2} \times 16 = 8 \text{ marks})$
			SECTI	ON "B	": PHYS	SIOLO	OGY: 38 MARK	S	
4.	Chook		gle best an	swer f	or each	of the	following and	write	your answer in th
4A.	Whice a) c)	ch among th Mitochond Nucleus		g cells is	b)	Nucl	wer house' of the leolus gi apparatus	cell?	
4B.	Whice a)	ch among the			s a phago phocyte	cyte?	c) B-lympho	cyte	d) Neutrophil
4C.		ch among the Diaphragm Sternocleid	manola	g muscle	es is resp b) d)		nal intercostals	during	quiet breathing?

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FIRST YEAR B.Sc. NURSING DEGREE EXAMINATION – SEPTEMBER 2011 SUBJECT: MICROBIOLOGY (BSN 106)

Monday, September 19, 2011

Time: 10:00 - 13:00 Hrs.

Max. Marks: 75

- Answer all questions. Write answers that are clear, relevant and legible.
- Illustrate your answers with neatly drawn and correctly labeled diagram wherever appropriate.
- 1. Answer the following essay questions:
- 1A. Define the terms Sterilization and Disinfection. Classify the methods of Sterilization. Discuss Dry heat sterilization.

(1+1+3+5 = 10 marks)

1B. Classify *Streptococci*. Describe the pathogenesis and laboratory diagnosis of *Streptococcus pyogenes* infection.

(3+3+4 = 10 marks)

1C. Define and classify immunity. Enumerate the differences between active and passive immunity. Add a note on immunization schedule.

(1+1+4+4 = 10 marks)

2. Write Short Notes on:

- 2A. Epstein Barr virus
- 2B. Candidiasis
- 2C. Life cycle of Enterobius vermicularis
- 2D. Bacterial flagella
- 2E. List the different types of culture media with examples
- 2F. Measles

 $(5\times6=30 \text{ marks})$

3. Choose the single best answer for the following:

- 3A. Which of the following is **NOT** true?
 - a) Viruses contain DNA or RNA
 - b) The nucleic acid of a virus is surrounded by a protein coat
 - c) Viruses multiply inside living cells
 - d) All viruses are enveloped
- 3B. Encapsulated bacterium are virulent because the capsule:
 - a) Act as endotoxin
- b) Resists phagocytosis
- c) Destroys host tissues
- d) Act as exotoxin
- 3C. First scientist known to observe microorganisms under microscope is:
 - a) Van Leeuwenhoek
- b) Louis Pasteur

c) Robert Koch

d) Edward Jenner

3D.	The most importan	nt step in preventing	g hospi	tal acquir	ed infection	is:	
	a) Hand washin	ng	b)	Broad s	pectrum anti	biotic p	prophylaxis
	c) Using dispos	sable instruments	d)	Avoidin	ng invasive p	rocedui	res
3E.	Negri bodies can l	be demonstrated in	infectio	on with:			
	a) Rabies virus	b) Hepatitis	B viru	s c)	Pox virus	s d)	Influenza virus
3F.	Maintaining aseps	is refers to:					
	a) Using unster	rile instruments					
	b) Not following	ng universal safety p	orecaut	ions			
	c) Creating a st	terile environment b	pefore a	any proce	dure		
	d) Providing Te	etanus toxoid immu	nizatio	n	Essas valus s		
3G.	Koplik spots are c	haracteristic of whi	ch of th	ne follow	ing infection	is?	
	a) Mumps	b) Measles		c) He	erpes	d)	Rubella
3H.	Route of transmiss	sion of Hepatitis A	virus				
	a) Perinatal tra	nsmission	b)	Parenter	ral transmiss	ion	
	c) Feco-oral tra	ansmission	d)	None of	the above		
3I.	Which of the follo	owing is a dimorphi	c fungi	ıs?			
	a) Histoplasma	a capsulatum	b)	Aspergi	llus flavus		
	c) Cryptococcu	is neoformans	d)	Trichop	hyton rubrar	n	
3J.	Fungus ball is asso	ociated with:					
	a) Candida	b) Mucor	c)	Aspergi	llus d)	Histo	oplasma
3K.	One of the followi	ng bacteria is uncu	ltivable	e in artific	cial culture m	nedia:	
	a) Corynebacte	erium diphtheriae	b)	Mycoba	cterium lepr	ae	
	c) Streptococci	us pneumoniae	d)	Clostria	lium tetani		
3L.	The causative age	nt of syphilis is:					
	a) Neisseria go		b)	Herpes	simplex		
	c) Treponema p	pallidum	d)	Epstein	Barr virus		
3M.	Larval forms of Ta	aenia solium are cal	lled as:			•	
	a) Cysticercus	cellulosae	b)	Cystice	rcus bovis		
	c) Cysticercoid	1	d)	None of	the above		
3N.	Oral polio vaccine	es are stored at:					
	a) Room tempe		b)	At 37°C	. beautiers		
	c) At 2-8°C		d)	10-15°C			
30.	Vaccination is a ty	ype of:					
		ve immunity	b)	Natural	Passive imm	unity	
		ctive immunity	d)	Artificia	al Passive im	munity	
							$(1\times15=15 \text{ marks})$
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FIRST YEAR B.Sc. NURSING DEGREE EXAMINATION – SEPTEMBER 2011 SUBJECT: PSYCHOLOGY (BSN 105)

Wednesday, September 21, 2011

Time: 10:00 – 13:00 Hrs. Max. Marks: 75

1. Write essay on any FIVE of the following.

- 1A. Psychoanalytic theory.
- 1B. Define intelligence and write briefly about assessment of intelligence.
- 1C. Discuss any TWO theories of motivation.
- 1D. Define memory and elaborate on types of memory.
- 1E. Elaborate on principles of perceptual organization.
- 1F. Discuss the Trait approach to personality.
- 1G. Define mental health and discuss the characteristics of a mentally healthy individual.

 $(8 \times 5 = 40 \text{ marks})$

2. Write short notes on any SEVEN of the following.

- 2A. Affiliation motive.
- 2B. Laws of learning.
- 2C. Types of conflicts.
- 2D. Attitude.
- 2E. Group factor theory of intelligence.
- 2F. Natural-observation method.
- 2G. James-Lange theory of emotion.
- 2H. Difference between operant and classical conditioning.
- 2I. Theories of forgetting.
- 2J. Mechanical aptitude test.

 $(5\times7 = 35 \text{ marks})$



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FIRST YEAR B.Sc. NURSING DEGREE EXAMINATION - SEPTEMBER 2011 SUBJECT: NUTRITION AND BIOCHEMISTRY (BSN 102)

Tim	e: 10:00 – 13:00 Hrs.	Max. Marks: 75
Ø	Answer Section - 'A' and Section - 'B' in two separate answer books.	
	SECTION – A: NUTRITION: 45 MARKS	
1.	Choose the single best response for the following.	
1A.		is: 60/kg
1B.	The vitamin required for blood coagulation is: a) A b) B c) C d) K	is strakesurolo) — z dislogeo) — (k amenanii
1C.	Hypervitaminosis of vitamin A results in: a) Hepatolenticular degeneration b) Metastatic calcification c) Night blindness d) Skin disorders	
1D.	Pernicious anemia results due to the deficiency of following mineral: a) Cobalt b) Fluoride c) Magnesium d) S	odium
1E.	Water toxicity is caused by: a) Abnormal increase in urine excretion b) Retention of water c) Excessive loss of water d) None of the above	
1F.	A condition where the plasma calcium level is below 9mg/dl is known as: a) Hypercalcemia b) Hypocalcemia c) Hyperparathyroidism d) None of the above	
1G.		iboflavin
1H.	The building block of all simple and compound lipids are: a) Fats b) Fatty acids c) Oils d) P.	hospholipids
1 I.	A good source of Galactose is: a) Apple b) Beetroot c) Milk d) S	ugarcane
1J.	The process in which excess glucose is converted to fats is known as a) Glycogenolysis b) Glycolysis c) Gluconeogenesis d) Lipogenesis	$(1 \times 10 = 10 \text{ marks})$
2A. 2B.	Define menu planning. Explain the factors to be considered in planning a menu.	

(1+6 = 7 marks)

4.	Write	short	notes	for	the	foll	owing:
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- 4A. Recommended calorie allowances for Indians based on ICMR.
- 4B. Functions and Deficiency disorders of Vitamin D.
- 4C. Functions of food.
- 4D. Food and agriculture organization (FAO).
- 4E. Regulation of plasma calcium level.

 $(4\times5 = 20 \text{ marks})$

Choose the single best response for the following.
Calcium ions are required for the following EXCEPT a) Coagulation b) In maintaining colloidal osmotic pressure c) Neuromuscular transmission d) Serves as intracellular messenger
The following lipoprotein transports cholesterol from extra hepatic tissue to the liver a) LDL b) Chylomicrons c) VLDL d) HDL
Fluoride inhibits glycolysis by inhibiting a) Aldolase b) Enolase c) Hexokinase d) Pyruvate kinase
Glycosuria is a common feature of a) Diabetes insipidus b) Jaundice c) Diabetes mellitus d) None of the above
In the body glycine is used for synthesis of all the following substances EXCEPT a) Heme b) Glutathione c) Glutamine d) Creatine
The most important essential fatty acid in the diet is a) Oleic acid b) Arachidonic acid c) Linoleic acid d) Plamitoleic acid (1×6 = 6 marks)

- 6A. Outline the steps of rhodopsin cycle. What is its importance?
- 6B. Write short note on t-RNA.
- 6C. Write short note on hormonal regulation of blood glucose.
- 6D. Write short note on fatty liver.

 $(3\times4 = 12 \text{ marks})$

Answer the following. 7.

- 7A. Explain the electron transport chain. Indicate the ATP synthesizing sites.
- 7B. Write the reactions urea cycle. What is its significance?

((4+2)+(5+1) = 12 marks)

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FIRST YEAR B.Sc. NURSING DEGREE EXAMINATION – SEPTEMBER 2011 SUBJECT: NURSING FOUNDATIONS (BSN 103)

			September 26, 2011										
Time	e: 10:00 – 13:00 Hrs.			Max. Marks: 75									
Ø	Answer all questions.												
1.	Choose the SINGLE BEST	answer fo	or each of the following	questions.									
1A.	The systems model theory is a) Hildegard E. Peplau c) Carl Rogers		oy Virginia Henderson Betty Neuman										
1B	The year in which INC act wa	as nassed											
113.		1957	c) 1977	d) 1967									
1C.	The ability to be self directed and independent in accomplishing goals is known as												
	a) Autonomy	b)	Assertiveness										
	c) Confidentiality	d)	Courtesy										
1D.	Distant vision is assessed using	ng											
	a) Confrontation test	b)	Hirschbergs test										
	c) Jaeger card	d)	Snellen chart										
1E.	A deformity of the chest with ratio of the anterioposterior to transverse diameter as 1:1 is												
	a) Asymmetric chest	b)	Barrel chest										
	c) Pigeon chest	d)	Funnel chest										
1F.	The position to assess Jugualr venous pressure is												
	a) left Lateral b) I	Right latera	al c) Supine	d) Semi fowlers									
1G.	Blowing or swishing sound due to restricted blood flow through narrowed blood vessel is known as												
	a) Thrill b) E	Bruit	c) Friction rub	d) Murmur									
1H.	The measurement system of size and make up of the body is												
	a) Anthropometry	b)	BMI										
	c) Body weight	d)	Quitlets index										
1 I.	Normal PH of Urine ranges b												
		4.5 to 8	c) 1-3 d)	D. 8.5 to 12									
BSN			(1)	Page 1 of 2									

1J.	The category of dru	igs whic	ch stir	nulates def	ecation	n is					
	a) Cathartics	b)	Eme	etics	c)	Laxatives	d)	D. Pur	gatives		
1K.	An alcoholic or hyd	lroalcoh	nolic s	solution pre	epared	from drugs	of her	bal orig	gin is		
	a) Lotion	b)	Oin	tment	c.)	Tincture	d)	D. Lin	iment		
1L.	A prescription shows injection Deriphyllin 1 amp S O S. Here S O S indicates										
	a) At bedtime		b)	Immedia	tely						
	c) Once a day		d)	When red	quired						
1M.	An immunologic re	action t	o a di	rug to whic	h a pe	rson has alre	eady b	een sen	sitized is		
	a) Drug allergy		b)	Drug rea	ction						
	c) Drug tolerance	е	d)	Drug tox	icity						
1N.	Type of bandage pr	eferred	over	the ankle j	oint is						
	a) Figure of eigh	nt	b)	Recurren	it						
	c) Reverse spira	1	d)	Spiral							
10.	Normal range of sp	ecific g	ravity	of urine is	3						
	a) 1.010 to 1.02	5	b)	1.010 to	1.045						
	c) 2.010 to 2.02	5	d)	3.010 to	3.025						
									$(1 \times 15 = 15 \text{ ma})$	arks	
2A.	List the purposes o	f urinary	y cath	eterization	. 4040				has peasing		
2B.	Explain the nurses	respons	ibility	in cathete	r care.						
									(4+9 = 13 ma)	arks	
3A.	List the various site	es for th	e adn	ninistration	of IM	injection.					
3B.	Explain the respons	sibility of	of a n	urse in givi	ing IM	injection.					
									(2+10 = 12 ma)	arks	
4.	Write short notes	on the	follov	ving.							
4A.	Health belief mode	el.									
4B.	Communication pr	ocess.									
4C.	Purposes of record	S.									
4D.	Nursing care of un	conscio	us par	tients.							
4E.	E. Assessment of nutritional needs.										
4F.	Barrier nursing tec	hniques	to be	followed i	n hosp	ital setting.					
4G.	Factors affecting v	wound he	ealing	ζ.							
									$(5 \times 7 = 35 \text{ ma})$	arks	
						5					

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