Reg. No.		
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## MANIPAL UNIVERSITY

## FIRST YEAR B.Sc. NURSING DEGREE EXAMINATION – SEPTEMBER 2012

	SUBJECT: BSN 1	105 - P	SYCHOLOGY		
	Wednesday, S	eptemb	er 12, 2012		
Time	e: 10:00 – 13:00 Hrs.			Ma	x. Marks: 75
K	Answer all questions.				
Ø	Choose the single best answer:				
1 Δ	Variables are controlled in the method of				
17.	a) Introspection b) Experim	nental	c) Ob	servation d	) Survey
	a) introspection b) Experim	iciitai	0) 00	Servation a	) Barrey
1B.	Method of minimal changes is also called				
	a) Method of limits b)	Clir	nical method		
	c) Psycho-physical method d)	Met	thod of constant	stimuli	
1C.	Electrical messages from one part of the b	ody to	another part is ca	arried out by	
	a) Dendrites b) Axon c)		iron d)	Myelin sheat	th
				L. C.	
1D.	Thalamus is part of				
	a) Fore brain b) Hind brain	c)	Mid brain	d) Cortex	
1E.	The system that tends to be active when w	ve are c	alm is		
	a) Sympathetic NS b)		a-sympathetic N	S	
	c) CNS d)	Lin	nbic system		
1F.	In the situation of fear and anger which gl	land get	e etimulated		
11.	a) Pituitary gland b)		roid gland		
	c) Adrenal gland d)		ncreas gland		
	c) Adichai giand	, I an	iereas graria		
1G.	tries to coordinate the activities of	the inte	rnal organs assoc	ciated with emo	tions
	a) Thalamus b)	) Hyj	po thalamus		
	c) Amygdala d)	) Cin	igulate gyrus		
1H.	The theoretical proposition that emotions	spring	from physiologic	al reactions is r	proposed by
	a) James- Lange b) Cannon-Bard				1aslow
		,			
11.	The minimum intensity of physical energicalled	gy of a	stimulus that m	ay produce any	sensation is
	a) High threshold	b)	Limited thresh	nold	
	c) Absolute threshold	d)	Low threshold	1	
1J.	When out of two equal lines one line is pe	erceive	as longer becau	ise of its anoles	in end called
13.	a) Illusion of curvature	b)	Illusion of per		viid viiivu
	c) Muller-Lyer illusion	d)	Illusion of size		
	-,	-,			

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2A.	Altho a) c)	ough lines are str Illusion of curv Muller-Lyer illu	ature	b)	Illus	sion of	ppear to be bower f perspective f size	d		
2B.	When		object,	the image	create	ed in b	oth eyes are not	identi	cal. This ph	enomenon
	a)	Convergence	b)	Illusion		c)	Illusion of size	d)	Retinal di	sparity
2C.	Tach	istroscopeis an i	nstrun	nent to mea	sure					
	a)	Memory	b)	Learning		c)	Attention	d)	Intelligen	ce
2D.	Life	instinct and deat			ven b	у				
	a)	Maslow	b)	Freud		c)	Adler	d)	Jung	
2E.	The	concept of Self-a	actuali	zation belor	ngs to	the th	neory of			
	a)	Freud	b)	Maslow		c)	Adler	d)	Rogers	
2F.	Dolla	ard & Miller dev	elope	d atl	neory	of per	rsonality			
	a)	Cognitive	b)	Behaviora	al	c)	Social learning	d)	Psychoan	alytic
2G.	In Pa	vlov's classical	condi	tioning exp	erime	nt, CS	stands for			
	a)	Food	b)	Bell		c)	Saliva	d)	Dog	
2H.	Insig	htful learning w	as dev	eloped by						
	a)	Skinner	b)	Kohler		c)	Watson	d)	Bandura	
21.	The	famous experim	ent of	trial and en	ror lea	arning	was conducted of	n		
	a)	Dog	b)	Cat		c)	Rat	d)	Pigeon	
2J.							forgetting depen	ds on		
		Method of lear			b) d)		ure of material ivation of the sul	niect		
	c)	Time lapsed af	ter rea	ining	u)	10101	ivation of the sut	ojeci		
3A.	_	rams in memory Poor memory	proce	minn . married		ad of	learning			
	a) c)	Traces of mem	orv	b) d)			learning nemory			
2D										
3B.	a)	ediate memory i Short term mer		b)	Rec	ent m	emory	*		
	c)	Sensory memo		d)			nemory			2
3C.	Two	factor theory of	intell	igence is de	velop	ed by				
	a)	Spearman	b)	Thorndike		c)	Cattell	d)	Guilford	
3D.	Koh	's Block design	test is	a						
	a)	Verbal test			b)	Peri	formance test			
	c)	Verbal and per	forma	nce both	d)	Pap	er-pencil test			
3E.	An I	Q of 88 is consid	dered	as						
	a)	Mild Mental R			b)		derline intelligen			
DON	c)	Dull Normal in	itellige	ence	d)	Ave	rage intelligence			Page 2 of 3

3F.	divided human beings basically into two distinct types: introvert and extrovert a) Jung b) Freud c) Cattell d) Adler	
20		
3G.	ID is governed by	
	a) Pleasure principle b) Moral principle	
	c) Reality principle d) Both pleasure and reality principle	
3H.	classified personality types on the basis of physical structure	
	a) Allport b) Eysenck c) Kretschmer d) Freud	
3I.	G.B. Allport belongs to	
	a) Psychoanalytic approach b) Humanistic approach	
	c) Trait approach d) Existential Approach	
3J.	Individual approach to personality was given by	
	a) Roger b) Adler c) Sheldon d) Jung	
	$(1 \times 30 = 30 \text{ mas})$	rks)
4.	Write very short notes on:	
4A.	Define Psychology	
4B.	The role of environment in personality development.	
4C.	What is visual adaptation?	
4D.	Explain the principle of figure-ground perception.	
4E.	Discuss external factors influencing attention.	
4F.	Problem solving.	
4G.	Socio-psychological needs.	
4H.	Paired-association learning.	
4I.	Types of memory.	
4J.	Social learning theory.	
4K.	Nature of aptitude.	
4L.	Attitude.	
4M.	Characteristics of a good test.	
4N.	What is defense mechanism?	
40.		
	$(2 \times 15 = 30 \text{ ma})$	rks)
5.	Write short notes on:	
	Explain the method of observation.	
5A. 5B.	Explain the method of observation.  Explain Schachter-Singer's theory of emotions.	
5C.	Implications of Classical Conditioning.	
5D.	Any two theories of forgetting	
5E.	Effect of heredity and environment on intelligence.	
JĽ.	(3×5 = 15 mag)	rks)

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#### FIRST YEAR B.Sc. NURSING DEGREE EXAMINATION - SEPTEMBER 2012

SUBJECT: BSN 107 - ENGLISH

		Thursday, September 13, 2012	
Time	e: 10:	00 – 13:00 Hrs.	Max. Marks: 75
1.	Cor	rect the error in the following sentences:	
	i)	He did not go for Mercedes Benz though he could afford.	
	ii)	You dare not to disobey your lecturers, lest you should be punished.	
	iii)	I will rather fail than resort to unfair means to pass the exam.	
	iv)	In the present period of recession, one cannot afford spending one's say	ings on luxuries.
	v).	One must be sympathetic towards the needy.	
			(5 marks)
2.	Cho	ose the correct form of verb from the brackets:	
	i)	The bell (rang/rung/had rung) 5 minutes before I reached.	
	ii)	Either the cat or the dogs(have/has) eaten the food.	
	iii)	He(is/was/has been) attending music classes since 2009.	
	iv)	She(speaks/speak) to children in a very gentle manner.	
	v)	We(have/are having) guests for dinner	
			(5 marks)
3A.	Cho	ose the right synonym for the following words:	
	i)	Accolade	
		a) Desire	
		b) Laurels	
		c) Criticism	
		d) Anger	
	ii)	Accomplice	
		a) Friend	
		b) Enemy	
		c) Guide	
		d) Companion	
	iii)	Chore	
		a) Job	
		b) Tide	
		c) Wind	
		d) Rest	
3B.	Cho	ose the right antonym for the following words:	
	i)	Solder	
		a) Merge	
		b) Separate	
		a) Discoud	

d)

Ignore

		b) In vogue	
		c) Obsolete	
		d) New	
			(5 marks)
A.	Fill	in the blank appropriately from the brackets:	
	i)	All of the furniture (look/looks) good.	
	ii)	Some parents (is/are) strict.	
	iii)	No children (dislike/dislikes) ice cream.	
	iv)	Neither he nor I (am/is) interested in music	
	v)	The are on the table (spectacles)	
	1)		(5 marks)
В.	Mar	rk the accent on the words:	(5 marks)
ь.	i)	Technician	
	ii)	Information	
	iii)	Application	
	iv)	Education	
	v)	Production	
	٧)		(5 marks)
			(5 marks)
	Cho	pose the correct phrasal words from the bracket:	
•	i)	She was standing the mirror (in front of/in place of)	
	ii)	I went to Delhi attend a conference.(in spite of/in order to)	
	iii)	A mother will undergo any difficulty her child.(on behalf of/for the sake of	£.
	iv)	complaining to the Government let us try to help ourselves.(Instead of/ In:	
	v)	my best efforts, I could not win the election.(In the course of/Inspite of)	spite 01)
	٧)		(5 marks)
			(5 marks)
	Tra	inscribe the following words phenomically:	
	i)	able	
	ii)	take	
	iii)	camp .	
	iv)	dance	
	v)	class	
	.,		(5 marks)
			(5 marks)
	Rea	nd the following passage and answer the questions that follow:	
	Mou	unt Vesuvius, a volcano located between the ancient Italian cities of Pon	npeii and
	Her	culaneum, has received much attention because of its frequent and destructive	eruptions.
	The	most famous of these eruptions occurred in A. D. 79.	

ii)

Current

a)

Mobile

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The volcano had been inactive for centuries. There was little warning of the coming eruption, although one account unearthed by archaeologists says that a hard rain and a strong wind had disturbed the celestial calm during the preceding night. Early the next morning, the volcano

poured a huge river of molten rock down upon Herculaneum, completely burying the city and filling in the harbor with coagulated lava.

Meanwhile, on the other side of the mountain, cinders, stone and ash rained down on Pompeii. Sparks from the burning ash ignited the combustible rooftops quickly. Large portions of the city were destroyed in the conflagration. Fire, however, was not the only cause of destruction. Poisonous sulphuric gases saturated the air. These heavy gases were not buoyant in the atmosphere and therefore sank toward the earth and suffocated people.

Over the years, excavations of Pompeii and Herculaneum have revealed a great deal about the behavior of the volcano. By analyzing data, much as a zoologist dissects a specimen animal, scientist have concluded that the eruption changed large portions of the area's geography. For instance, it turned the Sarno River from its course and raised the level of the beach along the Bay of Naples. Meteorologists studying these events have also concluded that Vesuvius caused a huge tidal wave that affected the world's climate.

In addition to making these investigations, archaeologists have been able to study the skeletons of victims by using distilled water to wash away the volcanic ash. By strengthening the brittle bones with acrylic paint, scientists have been able to examine the skeletons and draw conclusions about the diet and habits of the residents. Finally, the excavations at both Pompeii and Herculaneum have yielded many examples of classical art, such as jewellery made of bronze, which is an alloy of copper and tin.

The eruption of Mount Vesuvius and its tragic consequences have provided us with a wealth of data about the effects that volcanoes can have on the surrounding area. Today volcanologists can locate and predict eruptions, saving lives and preventing the destruction of cities and cultures.

7A.	Herculaneum and its harbour were buried underlava.
	a) liquid b) solid c) flowing
	d) gas e) answer not available
7B.	The poisonous gases were not in the air.
	a) able to float b) visible c) able to evaporate
	d) invisible e) able to condense
7C.	Scientists analyzed data about Vesuvius in the same way that a zoologist a specimen.
	a) describes in detail b) studies by cutting apart c) photographs
	d) chart e) answer not available
7D.	have concluded that the volcanic eruption caused a tidal wave.
	a) Scientist who study oceans b) Scientist who study atmospheric conditions
	c) Scientist who study ash d) Scientist who study animal behaviour
	e) Answer not available in article
7E.	Scientist have usedwater to wash away volcanic ash from the skeletons of victims.
	a) bottled b) volcanic c) purified d) sea e) fountain
7F.	What do archaeologists' analyse about Mt. Vesuvius?

 $((1 \times 5) + 5 = 10 \text{ marks})$ Page 3 of 4

#### 8. Write a précis (summary) of the following passage and suggest a suitable title to it:

The Clean Air Act of 1970, amended in 1977 and 1981, is one of the basic laws under which EPA operates. Its purpose is "to protect and enhance the quality of the nation's air resources so as to promote the public health and welfare and the productive capacity of its population."

In order to do that, Congress authorized a national research and development program to prevent and control air pollution. The act also provided for EPA to assist state and local governments in the development and execution of their air quality programs.

The Clear Air Act required EPA to set national primary and secondary ambient air quality standards for certain air pollutants. The law also required emission standards for mobile sources of air pollution (vehicles), and for new stationary sources such as smokestacks. In addition, the act called for regulation of hazardous air pollutants for which no ambient air quality standard is applicable.

Another section of the law was designed to protect air quality in national parks, wilderness areas, monuments, seashores, and other areas of special national or regional natural, recreational, scenic, or historic value, and to prevent significant deterioration of air quality in those areas.

(10 marks)

#### 9A. Write an essay on any one of the following in about 250-300 words:

- Mercy killing is merciless killing.
- ii) Why population should be controlled?

(10 marks)

9B. Write an application for the post of Staff Nurse with or without experience for a newly opened hospital at Mangalore.

Apply with complete resume to The Secretary, Life Line hospital, Mangalore-2.

(6+4 = 10 marks)



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#### FIRST YEAR B.Sc. NURSING DEGREE EXAMINATION – SEPTEMBER 2012 SUBJECT: BSN 106 – MICROBIOLOGY

T:	Friday, Sept	temb	
	e: 10:00 – 13:00 Hrs.		Max. Marks: 75
Æ.	Answer all questions. Write answers th		
Ø	appropriate.	rawi	n and correctly labeled diagram wherever
Ø	Choose the single best answer for the fo	llowi	ing:
1A.	Father of antiseptic surgery is:		
	a) Robert Koch b) Joseph Lister		c) Good Pasture d) Louis Pasteur
1B.	Name the disc diffusion method for antibi-	otic s	sensitivity testing:
	a) Kirby Bauer's method	b)	Agar Dilution method
	c) Broth Dilution method	d)	CAMP Test
1C.	Gram staining is an example for:		
	a) Simple staining	b)	Special staining
	c) Differential staining	d)	Negative staining
1D.	Give an example for Enriched media:		
	a) Blood Agar	b)	Alkaline peptone water
	c) Peptone water	d)	Mac Conkey's Agar
1E.	Which of these infections is transmitted th	roug	h contaminated water:
	a) Tetanus b) Histoplasmosis	avag	c) Rabies d) Cholera
1F.	Which of these Biomedical wastes are seg	regat	ted into Red colored containers:
	a) Non-infectious waste	b)	Infectious substance
	c) Used sharps	d)	All of the above
1G	Which of these antibiotics act on bacterial	cell.	wall:
10.	a) Penicillins b) Quinolones	c)	Tetracyclines d) Aminoglycosides
1H.	Organism commonly associated with Gas	Gano	Trane'
111.	a) Clostridium perfringens	b)	Clostridium difficle
	c) Clostridium tetani	d)	Clostridium botulinum
	c) Closir tatam tetam	u)	Closi imam ootaman
1I.	VDRL test is performed for the diagnosis	of:	
	a) Enteric fever b) Brucellosis		c) Gonorrhoea d) Syphilis
1J.	Toxic shock syndrome is caused by:		
	a) Salmonella typhi	b)	Shigella flexneri
	c) Mycobacterium tuberculosis	d)	Staphylococcus aureus
2A.	Quellung test is used for the identification	of:	
	a) Streptococcus mutans	b)	Streptococcus milleri
	c) Streptococcus pneumoniae	d)	Enterococcus fecalis
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2B.	Which of the following staining method	d will he	lp in presumptive diagnosis of Diphtheria:					
	a) Gram's Stain	b)	Albert's stain					
	c) Auromine O stain	d)	Gabbet's stain					
2C.	Aflatoxin is produced by:							
	a) Aspergillus flavus	b)	Pencillium marneffei					
	c) Cryptococcus neoformans	d)	Candida albicans					
2D.	Which of these fungi infect hair and na	il?						
	a) Dermatophytes	b)	Actinomycetes					
	c) Zygomycetes	d)	Ascomycetes					
2E.	Name the dimorphic fungi:							
	<ul> <li>a) Trichosporon Spp.</li> </ul>	b)	Mucor Spp.					
	c) Cryptococcus Spp.	d)	Histoplasma Spp.					
2F.	Serological test used for diagnosis of E	nteric fe	ver is:					
	a) TPHA b) Paul Bunnel	c)	Weil-Felix d) Widal					
2G.	Name the toxin responsible for the clin	ical sym	ptoms of tetanus disease:					
	a) Tetanolysin b) Tetanospasmin	(c)	Alpha toxin d) Beta toxin					
2H.	The largest intestinal Nematode seen in	n man is:						
	a) Ascaris lumbricoides	b)	Ancylostoma duodenale					
	c) Trichuris Trichuria	d)	Trichinella spiralis					
21.	NIH swab is used to collect and demonstrate the eggs of:							
	a) Enterobius vermicularis	b)	Echinococcus granulosus					
	c) Hymenolepsis nana	d)	Schistosoma haematobium					
2J.	The infective stage in the life cycle of a Binucleate cyst b) Precyst		ba histolytica is: Uninucleate cyst d) Quadrinucleate cyst					
3A.	Complications of Malaria is commonly	caused	by:					
	a) Plasmodium vivax	b)	Plasmodium ovale					
	c) Plasmodium falciparum	d)	Plasmodium malariae					
3B.	Cysticercous cellulosae is the larval for	rm of:						
	a) Fasciolopsis buski	b)	Taenia solium					
	c) Ascaris lumbricoides	d)	Taenia saginata					
3C.	Give an example for Live attenuated V	accine:						
	a) BCG b) Salk vaccine	c)	DPT d) TAB					
3D.	Tuberculin test is an indicator of:							
	a) Delayed hypersensitivity	b)	Cutaneous Anaphylaxis					
	c) Passive Cutaneous Anaphylaxis	d)	Schultz Dale phenomenon					
3E.	VDRL test is an example for:							
	Slide flocculation test	b)	Agglutination test					
	c) Neutralization test	d)	Immunofluorescence test					
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3F.	BCG Vaccine is usually administered at:			
	a) Time of birth	b)	After 1 year of birth	
	c) After 3 years birth	d)	After 2 years of birth	
3G.	Which of these is a RNA Virus?			
	a) Herpes Simplex Virus	b)	Hepatitis B Virus	
	c) Epstein Barr virus	d)	Rabies virus	
3Н.	Tzank smear is used for the presumptive	diagn	osis of infection?	
	a) Herpes simplex virus 1	b)	Epstein Barr Virus	
	c) Rabies	d)	Cytomegalovirus	
3I.	Hepatocellular carcinoma is caused by:			
	a) Human Immunodeficiency virus	b)	Rhinovirus	
	c) Hepatitis E virus	d)	Hepatitis B virus	
3J.	Dengue virus is transmitted to man by:			
33.	a) Anopheles mosquito	b)	Aedes mosquito	
	c) Culex mosquito	d)	Ixodid tick	
	c) Calex mosquito	u)	Ixodia tiek	$(1\times30=30 \text{ marks})$
1	Write short answers on:			
4.				
4A.	Name two culture media.	0	1.	
4B.	Demonstration and function of Bacterial	Capsu	iie.	
4C.	Two uses of Autoclave.			
4D.	Nagler's reaction.	- e C+		ation
4E.	Name the Non suppurative complications		reprococcus pyogenes inte	ection.
4F.	Name two infections caused by Candidia	spp.		
	List two species of Mycobacteria.		Common infantion	
4H.	Two methods of diagnosing Cryptococcu	is neoj	formans infection.	
4I.	Morphology of HIV.			
4J.	Give two examples of Arbo viruses.		Hook women	
4K.	List two differences between Round work	m and	HOOK WORM.	
4L.	List two diagnostic tests for filariasis.			
4M.	Epstein Barr virus – enumerate two infec			
4N.	Name two types of Agglutination reaction	ns.		
40.	Immunization schedule.			$(2 \times 15 = 30 \text{ marks})$
5.	Write Short answers on:			
5A.	Bacterial Aerobic and Anaerobic culture			
5B.	Differences between exotoxins and endot	toxins		
5C.	Laboratory diagnosis of Typhoid.			
5D.	Prophylaxis of Rabies viral infection.			
SE.	Innate Immunity			

 $(3\times5=15 \text{ marks})$ 

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## FIRST YEAR B.Sc. NURSING DEGREE EXAMINATION – SEPTEMBER 2012 SUBJECT: BSN 103 – NURSING FOUNDATIONS

Saturday, September 15, 2012

Time	e: 10:	:00 – 13:00 Hrs	S.							Max. Marks: 75
K	Ans	swer all questi	ons.							
1.	Cho	oose the SING	LE BES	T answer	to eac	ch of	the fo	llowing questi	ons.	
1A.	Foll	lowing are the	concepts	of nursing	EXC	EPT				
	a)	Health	b)	Nursing		c)	Pers	son d	) The	ory
1B.	Hea	alth promotion	activitie	s include						
	a)	Exercise and			b)			to air pollutan	ts	
	c)	Poor hygieni	c condit	ion	d)	Sm	oking	and drinking		
1C.	Dur	ring an interact	ion with	n a critical	ly ill j	patien	ts fan	nily, the nurse	uses the	communication
	tech	nnique of silenc	e. This	technique a	assists	the fa	mily t	to		
	a)	Interact with	the pati	ent	b)	Dec	crease	anxiety		
	c)	Organize the	though	ts	d)	Pla	n for c	lischarge		
1D.	Inci	reased rate of re	ecniratio	n is called						
110.	a)	Tachypnea		Hyperve		on	c)	Bradypnea	d)	Apnea
	4)	racinyphea	0)	Tryperve	mman	OII	C)	Diadyphea	u)	Aprica
1E.	The	colour of the r	normal t	ympanic m	embra	ine is				
	a)	Deep red	b)	Pearly gr	ray		c)	Yellow amb	er d)	White
1F.	Infl	ammation of th	ne tongu	e is known	20					
11.	a)	Gingivitis	b)				c)	Parotitis	d)	Stomatitis
	a)	Onigivitis	0)	Glossitis			()	raionus	. d)	Stomatitis
1G.	The	concentration	of Lyso	l used to di	isinfec	t rubb	er ma	ckintosh is		7.
	a)	1:20	b)	1:30			c)	1:40	d)	1:50
177	0									
1H.		e pint is equal to		250 1				1000 1	1	500 1
	a)	100ml	b)	250ml			c)	1000ml	d)	500ml
1I.	If 1	000ml of ringe	r lactate	is to be ad	minist	tered i	n eig	ht hours, how	nany dro	ops per minute i
		ald be ( drop fa							12	
	a)	20	b)	41			c)	35	d)	60
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20014	100									rage 1 01 2

IJ.	The exchange of gas	es in a	and out of the lu	angs is k	nown as		
	a) Ventilation	b)	Diffusion	c)	Conduction	d)	Perfusion
1K.	A semisolid prepara	tion of	one or more di	rug is ca	lled as		8.84
	a) Ointment	b)	Paste	c)	Tincture	d)	Powder
IL.	The entry and develo	opmen	t of disease pro	ducing	agent in human	body is	
	a) Immunity	b)	infection	c)	reaction	d)	resistance
1M.	The method of destr	uction	of all microorg	ganisms	both vegetative	and spe	ores is by
	a) Boiling	b)	Cleaning	c)	Disinfection	d)	Sterilization
1N.	A wound which is c	aused	with a sharp kn	ife or sc	alpel is known	as	
	a) Abrasion	b)	Incision	c)	Laceration	d)	Puncture
10.	Temperature above	105° I	is known as				
			Moderate py	rexia	c) Hyper p	yrexia	d) High pyrexia $(1 \times 15 = 15 \text{ marks})$
2A.	Explain the types of	enem	a.				
2B.	Explain the nurse's	respor	sibility in the a	dminist	ration of enema.		
							(4+9=13  marks)
3A.	Discuss the nurses r	espon	sibility in storag	ge of me	dications		
3B.	Explain the nurses in	ole in	prevention of n	nedicatio	on error.		
							(6+6 = 12  marks)
4.	Write short notes	on the	following:				
4A.	Qualities of a nurse						
4B.	Role of nurse during	g the a	dmission proce	SS.			
4C.	Guidelines for writi	ng ext	ected outcome	s in a nu	rsing care plan.		
4D.	Alterations in norm	al urin	ary elimination				
4E.	Effects of medication		i A				minutes 5 mil 10
4F.	Causes of pressure	sores.					
4G.	Procedure of sitz ba	th.					
							$(5 \times 7 = 35 \text{ marks})$

BSN 103

Reg. No.
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# FIRST YEAR B.Sc. NURSING DEGREE EXAMINATION - SEPTEMBER 2012

	SUI	BJECT: BS	SN 102 – NUTH	RITION	AND BIOCHI	EMIS	ΓRY
æ.	10.00 12.00		Monday, Sep	otember	17, 2012		M M1 75
-	2: 10:00 – 13:00		Castion (D)	in true o	on awate awayyay	book	Max. Marks: 75
Æ	Answer Section						8.
		SECT	TION – A : NU	TRITI	ON : 45 MARK	<u>S</u>	
Ø	Choose the sin	gle best res	sponse for the	followin	ıg.		
1A.	The unit of ener	rgy is					
	a) Calorie	b)	Gram	c)	Meter	d)	Litre
1B.	Vitamin A is es a) Bone min			190	function? c) Vision	d)	Wound healing
1C.	'Scurvy' occurs	s due the de	ficiency of the	followi	ng Vitamin		
	a) A	b) C	c) D		d) K		
1D.	The following i	is an examp	le for micro ele	ment			
	a) Chloride	b)	Iron c)	Pota	assium d)	Sul	phur
1E.	A major cation	present in t	the plasma is				
	a) Chloride			c)	Bicarbonate	d)	Sulfate
1F.	The accumulati	ion of nitrog	genous waste in	the blo	od is a condition	know	n as
					Ketonuria		
1G.	Prolonged use	of body fats	for energy lead	ds to			
	a) Ketosis	b)		c)	Lipolysis	d)	Lipogenesis
1H.	Glysine belong	s to the foll	owing amino a	cid grou	ip .		
					Semi-essential	d)	Unessential
1I.	An example fo	r a polysaco	haride is:				
11.	a) Fructose			c)	Ribulose	d)	Starch
1J.	The type of car	rhohydrate i	made up of two	molecu	les of glucose is		
13.	a) Ketose	b)	Lactose	c)		· d)	Sucrose
2A.	Fatty acid pres					1	01.111
	a) Acetic ac	eid b)	Butryric acid	(c)	Caproic acid	d)	Oleic acid
2B.	The protein res	sponsible fo	r muscle contra	ection is			
	a) Albumin	b)	Insulin	c)	Myosin	d)	Transferrin

2C.	The process of removing water from food for the purpose of preservation is known as a) Canning b) Drying c) Heating d) Fortification
2D.	One molecule of glucose and one molecule of galactose forms
	a) Fructose b) Lactose c) Maltose d) Sucrose
2E.	Aminoacids are the building blocks of a) Carbohydrates b) Lipids c) Minerals d) Proteins
2F	Which of the following food does not have lipids?
21.	a) Cereals b) Milk c) Pulses d) Sugar
2G.	Salt iodization is most successful for prophylaxis of
	a) Anemia b) Goitre c) Night blindness d) Scurvey
2H.	Bow legs, Knock knees and pigeon chest occurs due to deficiency of
	a) Iron b) Pyridoxine c) Vitamin C d) Vitamin D
2I.	The iron requirement per day for an adolescent girl between 13-15yrs is
	a) 20mg b) 25mg c) 35mg d) 40mg
2J.	Low sodium, low fat, low calorie diet is recommended for the following disease condition
	a) Cirrhosis of liver b) Peptic ulcer c) Hypertension d) Obesity $(1 \times 20 = 20 \text{ marks})$
3.	Write short notes on the following:
3A.	Elements of nutrition.
3B.	Functions of vitamin B <sub>1</sub> (Thiamine).
3C.	Any three methods of food preservation.
3D.	Factors affecting Iron absorption.
3E.	Budgeting of food. $(3\times5 = 15 \text{ marks})$
4.	Write short notes on the following:
4A.	Functions of CARE(Co-operative for Assistance and Relief Everywhere)
4B.	Aims of nutritional education.
4C.	Two examples for food fortification.
4D.	Respiratory Quotient.
4E.	Any two advantages of breast feeding. $(2 \times 5 = 10 \text{ marks})$
	OROMAN B. BAGOTERATORRAL AGAILBATO
_	SECTION - B : BIOCHEMISTRY : 30 MARKS
5.	Choose the single best response for the following:
5A.	Ketoacidosis is commonly observed in  a) Diabetes mellitus b) Rickets c) Atheroscelerosis d) Fatty liver
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	a) Thiolase	b)		G CoA lys			
	c) Thiophorase	d)	Beta	hydroxy l	outyrate dehyd	irogenase	
5C.	The synthesis of ketone	bodies o	ccurs	in			
	a) Muscle b	) Live	er	c) Kid	lney	d) Bra	in
5D.	The rate limiting enzym	e in chol	lestero	l biosynthe	esis is		
	a) HMG CoA reducta	ase	b)	HMG Co	A synthase		
	c) Thiolase		d)	Citrate sy	nthase		
5E.	Glycogen phosphorylase	e acts on	glyco	gen to pro	duce		
	a) Glucose 6 phospha		b)		1 phosphate		
	c) Free glucose		d)		1 phosphate		
5F.	All of the following ami	no acide	are ol	ucogenic e	evcent		
J1 .	a) Alanine b		cine	c)	Glutamate	d)	Aspartate
_							
5G.	The enzyme glyceraldel						
	a) Arsenite b	) Ars	enate	c)	Fluoride	d)	Oxalate
5H.	The enzymes of glycoly	sis are lo	cated	in			
	a) Mitochondria	b)	Cyto	sol c)	Nucleus	d)	Golgi apparatus
51.	Blood urea estimation is a) Liver b			s a screeni	ng test for the Kidney	evaluation d)	
5J.	The metabolic disorder	albinism	is cha	racterized	by the follow	ing excer	ot
	a) Lack of melanin s	ynthesis		b)	Intolerance	to heat	
	c) Increased suscepti	bility to	skin ca	ancer d)	Defect in e	nzyme ty	rosine hydroxylase
							(1×10 =10 marks)
6.	Answer the following of	question	s:				
6A.	Write short note on dena	aturation					
6B.	Write short note on beri						
	Name any two renal fun		sts.				
	Short note on phenylket						
							$(2\times4=8 \text{ marks})$
7.	Answer the following:						
7A.	Write short note on seru	ım calcii	ım hor	neostasis			
7B.	Digestion of lipids.	an carett	1101	noosiasis.			
	Name any three hetero		haride	s along wi	th compositio	n.	
				8			$(3\times4 = 12 \text{ marks})$

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#### FIRST YEAR B.Sc. NURSING DEGREE EXAMINATION – SEPTEMBER 2012 SUBJECT: BSN 101 – ANATOMY AND PHYSIOLOGY

Tuesday, September 18, 2012

Time: 10:00 - 13:00 Hrs.

Max. Marks: 75

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

#### SECTION "A": ANATOMY: 37 MARKS

<ol> <li>Write briefly on:</li> </ol>
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- 1A. Name the parts of the digestive system. Describe the vermiform appendix.
- Describe the pancreas.
- 1C. Describe the external features of uterus. Add a note on its microscopic structure.
- 1D. Enumerate the parts of the urinary system. Explain the urinary bladder in detail.

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

#### 2. Short notes:

- 2A. Epidermis of skin.
- 2B. Nasal septum.
- 2C. Posterior relations of kidney.
- 2D. Blood supply of thyroid gland.
- 2E. Structure of lymph node.

 $(2\times5 = 10 \text{ marks})$ 

#### 3. Multiple choice questions:

- 3A. Which of the following structures is not present at the hilum of kidney?
  - a) Renal artery
- b) Renal pelvis
- c) Renal vein
- d) Gonadal vein

- 3B. The apex of the heart is formed by
  - a) Right atrium
- b) Left atrium
- c) Right ventricle d)
- d) Left ventricle
- 3C. Which of the following nerves supplies the muscles of the larynx?
  - a) Internal laryngeal
- b) Recurrent laryngeal

c) Hypoglossal

- d) Spinal accessory
- 3D. Which of the following is the power house of the cell?
  - a) Golgi complex b)
    - Lysosomes
- c) Mitochondria
- d) Centrioles

3E.	The	e following is an example of seco	ndary c	artilaginous joints, except?
	a)	Pubic symphysis	b)	Shoulder joint
	c)	Manubriosternal joint	d)	Intervertebral joint
3F.	Occ	cipital lobe of cerebrum is supplie	ed by w	hich artery?
	a)	Posterior cerebral	b)	Anterior choroidal
	c)	Anterior cerebral	d)	Middle meningeal
3G.	Pyr	amid is present in		
	a)	Midbrain b) Pons	c)	Medulla oblongata d) Spinal cord
3H.	Wh	ich of the following is not a cont	ent of tl	ne middle ear cavity?
	a)	Ear ossicles	b)	Stepedius
	c)	Tensor tympani muscle	d)	Bony cochlea
3I.	Wh	at structure lies in the porta-hepa	tis of li	ver?
	a)	Hepatic vein	b)	Hepatic artery
	c)	Ligamentum-venosum	d)	Ligamentum-teres
3J.	Par	otid gland is an example for?		
	a)	Serous salivary b) Mucous	salivar	y c) Mixed salivary d) Endocrine
3K.	Pitt	uitary gland is located in the body	of the	following bone?
	a)	Frontal b) Sphenoi	id	c) Occipital d) Parietal
3L.	Sup	orarenal medulla secretes		
	a)	Aldosterone	b)	Cortisol
	c)	Oestrogen	d)	Noradrenaline and Adrenaline
3M.	WI	nich is the normal site of implanta	ation?	
	a)	Ampulla of uterine tube	b)	Posterior wall of the body of uterus
	c)	Cervix of the uterus	d)	Vagina
3N.	Wh	ich of the following cells lies out	side the	seminiferous tubules of testes?
	a)	Spermatogonia	b)	Primary spermatocytes
	c)	Interstitial	d)	Sertoli
30.	Wh	ich of the following is false abou	t the ca	rdiac muscle?
	a)	It is involuntary		b) It branches and anastomoses
	c)	Single muscle fibre is multinuo	eleated	d) It shows striations
		*		$(1 \times 15 = 15 \text{ marks})$

BSN 101

#### SECTION "B": PHYSIOLOGY: 38 MARKS

		<u>DEC.</u>	1011	D . 1 11	1 131	OLC	WI.	JO WIAKE	72		
4.	Cho	oose the single best a	nswei	for eac	ch o	f the	follo	owing and	write	e you	r answer in the
4A.	Wh	at happens when a cell	is exp	osed to a	a hv	perto	nic m	edium?			
	a)	Exosmosis b)		osmosis		c)		ocytosis	d)	Pha	gocytosis
4B.	Wh	ich among the followir	ng plas	ma prote	ins	is NC	T sv	nthesized b	v the	liver?	
	a)	α globulin b)		obulin		c)		umin	d)		nunoglobulin
4C.	Con	duction of impulses in	nerve	fibers is	inc	rease	d by				
	a)	Decreased temperatu	ire	ь	)	Mye	linati	on			
	c)	Increased plasma cal	cium	d	)	Facil	itateo	d diffusion			
4D.	Whi	ich of the following is	a corre	ect formu	ıla f	or the	mea	n arterial b	lood r	oressu	re (MAP)?
	a)	$MAP = CO \times SV$						O X HR	1		. ()
	c)	MAP = CO X PR		d				R X PR			
4E.	Whi	ich event does the T- v	vave o	f an elect	roc	ardio	ram	renresent?			
	a)	Ventricular depolaria						olarization			
	c)	Ventricular repolariz			)			olarization			
4F.	The	volume of air that ren	nains i	n the lung	gs e	ven a	fter f	orceful exp	iratio	n is ca	lled
	a)	Expiratory Reserve	olume	e b	)	Resid	dual	volume			
	c)	Tidal Volume		d	)	Inspi	rator	y Reserve	Volun	ne	
4G.	Wh	ich among the followir	ng is an	n inspirat	ory	musc	le?				
	a)	Internal intercostal		b	)	Stape	edius				
	c)	Rectus abdominius		d	)	Diap	hragi	m			
4H.	Bile	is required for the dig	estion	and abso	orpti	ion of					
	a)	Carbohydrates	b)	Fats			c)	Proteins		d)	Minerals
4I.	Intri	insic factor produced l	by the	parietal	cell	of th	e gas	stric land is	requi	ired fo	or the absorption
	a)	Vitamin B <sub>12</sub>	b)	Vitami	n K		c)	Iron .		d)	Calcium
4J.	Nor	mally the ultrafiltrate i	n the l	Bowman	's ca	apsul	e is d	evoid of			
	a)	Glucose	b)	Water			c)	Sodium		d) -	Proteins
4K.	Wh	ich part of the nephron	does	aldostero	ne a	act to	cause	e reabsorpti	ion of	sodiu	m ions?
	a)	Distal convoluted tu	bule	b	)	Loop	of H	Henle			
	c)	Bowman's capsule		d	)	Prox	imal	convoluted	tubul	le	

4L.	Whi	ich among the fol	lowin	g is ar	hypocale	cemic h	ormo	ne?			
	a)	Parathormone		b)	Insulin		c)	Calcitonir	1	d)	Thyroxine
4M.	Whi	ich among the fol	lowin	g is th	e primary	gonad	of the	e female?			
	a)	Ovary	b)	Uter	rus	c)	Fall	opian tubes		d)	Cervix
4N.	Whi	ich among the fol	lowin	g is a	motor trac	ct?					
	a)	Posterior colum	nn patl	hway		b)	Spi	nocerebellar	tract		
	c)	Lateral spinoth	alamio	tract		d)	Pyr	amidal tract			
40.	Whi	ich among the fol	lowin	g is a	chemical	sense?					
	a)	Vision	b)	Olfa	ction	c)	Aud	lition	d)		orioception ×15 = 15 marks)
5.	Wr	ite briefly on:									
5A.	Con	duction system o	f the l	neart.							
5B.	Cre	tinism.									
5C.	Syn	aptic transmissio	n.								
											$(3\times3=9 \text{ marks})$
6.	Ans	swer the following	ng in s	hort:							
6A.	Disc	cuss on ABO blo	od gro	up sy	stem.						
6B.	Giv	e TWO causes fo	r mus	cle fat	igue.						
6C.	Def	ine: i) Hyp	ooxia	ii)	Dead sp	ace vol	ume				
6D.	Enu	imerate any TWC	func	tions o	of gastrin.						
6E.	Dra	w a neat labeled	diagra	m of t	he nephro	on.					
6F.	Exp	olain any TWO te	mpora	ry con	ntraceptiv	e measi	ires.				
6G.	Wit	h a neat labeled o	liagrai	n exp	lain 'myo	pia'.					
										(2	$2 \times 7 = 14 \text{ marks}$