MFN-001

P.T.O.

01192

MFN-001

MASTER OF SCIENCE (DIETETICS AND FOOD SERVICE MANAGEMENT)

Term-End Examination

December, 2011

MFN-001: APPLIED PHYSIOLOGY

Maximum Marks: 100 Time: 3 hours Attempt any five questions in all. Note: (i) (ii) Question no. 1 is compulsory. (iii) All questions carry equal marks. 10x1=10Match column A with column 'B' 1. (a) T-lymphocytes (i) Hypocalcaemia (A) Lymphoid tissue (ii) Degeneration of B cell (B) stimulation (C) Progesterone (iii) Vasopressin Polyphagia (iv) Decrease acidity of (D) bodyfluid (v) Juxta glomerular cell Tetany (E) Depth of inspiration (vi) Pineal gland (F) (G) Melatonin (vii) Thymosin (viii) Corpus Luteum (H) Renin Antidiuretic hormone (ix) Pontine centre (I) (x) Interleukin Aldosterone (J) (K) Trypsin

	(b)	Briefly explain the terms: 2	x5=10
		(i) Presbiopia	
		(ii) Plastid	
		(iii) Universal blood donor	
		(iv) Haemostasis	
		(v) Phagocytosis	
2.	(a)	Describe factors that affect the cardia output.	c 8+12
	(b)	Discuss the common causes of secondary hypertension.	
3.	(a)	How will you provide artificial respiration	?
	(b)	Discuss chemical control of respiration.	6+14
4.	(a)	What are the composition and function o Bile? How is it secreted?	f 10
	(b)	Give the structure and functions of the	10
		Pancreas.	
ΛV	/W.	ignouassignmentguru	.cor
5.	(a)	How does the kidney maintain pH balance in Discuss in relation to acid and alkaline diets	
	(b)	Briefly discuss the renal function tests.	10
6.	(a)	Name the cranial nerves.	6
	(b)	Discuss the effects of sympathetic and	14
		parasympathetic stimulations on the body system.	

- 7. (a) Discuss structure and function of ovary.
 (b) Schematically explain the organs involved in taste perception.
 (c) Enlist the functions of the hormones produced by adrenal cortex.
- 8. Write short notes on any four of the following.
 - (a) Physiology of lactation.

5+5+5+5

- (b) Endocrine glands in our body
- (c) Major functions of cerebellum
- (d) Difference between active and passive transport systems.
- (e) Large Intestine structure and functions.

ASSIGNMENT GURU

MFN-001

02463

MFN-001

P.T.O.

MASTER OF SCIENCE (DIETETICS AND FOOD SERVICE MANAGEMENT)

Term-End Examination

June, 2012

MFN-001: APPLIED PHYSIOLOGY

Maximum Marks: 100 Time: 3 hours (i) Attempt any five questions. Note: (ii) Question no. 1 is compulsory. (iii) All questions carry equal marks. Give one example of each of the following: (a) 1. 10x1=10(i) Leukocytes Male Contraceptive (ii) (iii) Coverings of the eye (iv) Constituents of Bile www. tguru.com (v) Spinal nerves (vi) Renal Function Tests (vii) Lobes of cerebral cortex (viii) Disorders of image formation Types of antibodies (ix) (x) Hormones secreted by Anterior Pituitary gland.

	(b)	Define the following:	10
		(i) Haemopoiesis	
	•	(ii) Macrophages	
		(iii) Mitosis	
		(iv) Phagocytosis	
		(v) Atherosclerosis	
2.	(a)	Explain the physiology of lactation.	10
	(b)	Describe the common disorders of Female Reproductive System.	10
3.	(a)	Explain the structure of Pancreas with the help of suitable diagram.	10
	(b)	Describe the functions of different hormones secreted by Pancreas.	10 JRI
4. W\	(a)	Describe the structure of ear with the help of suitable diagram	10 CON
	(b)	Explain the mechanism of hearing.	10
5.	(a)	What do you understand by the term `ageing'?	4
	(b)	Explain the various theories of ageing.	4
	(c)	Describe the age related changes seen in different body systems and tissues	12

- 6. Define anaemia and explain the different types 20 of anaemia
- 7. (a) Describe the structure of kidney with the 10 help of a diagram.
 - (b) Explain the process of urine formation. 10
- 8. Write short notes on any four of the following:

5+5+5+5

- (a) Structure and functions of a neuron
- (b) Permanent methods of contraception
- (c) Glaucoma
- (d) Antibody Mediated Immune System
- (e) Haemostasis

ASSIGNMENT GURU

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00497

No. of printed pages: 3

MFN-001

MASTER OF SCIENCE (DIETETICS AND FOOD SERVICE MANAGEMENT)

Term-End Examination December, 2012

MFN-001: APPLIED PHYSIOLOGY

Maximum Marks: 100 Time: 3 hours Attempt any five questions. Note:(i) Question No. 1 is compulsory (ii) All questions carry equal marks (iii) Give one example of each of the following: (a) 1. 1x10=10Endocrine glands (i) Female contraceptives (ii) (iii) Retinal cells (iv) Types of Deafness (v) Cranial nerves Types of Blood cells (vi) (vii) Renal Functions Tests (viii) Ventricles of the Brain Enzymes of Gastric Juice (ix) Hormones Secreted by Posterior (x) Pituitary Gland.

	(b)	Explain in 2-3 sentences each of the following terms:	2x5
		(i) Autoimmunity	
		(ii) Peripheral nervous system	
		(iii) Gustation	
		(iv) Loop of Henle	
		(v) Cardiac Output	
2.	(a)	What do you understand by the term, "Nutrition'?	4
	(b)	Describe the classification of nutrients.	6
	(c)	Discuss the various nutritional components and their relation with physiology.	10
3.	(a)	What is Blood Pressure ?	4
VVV	(b)	Explain the various factors affecting the Blood Pressure.	6 :O N
	(c)	Discuss the blood pressure regulatory mechanisms.	10
4.	(a)	Describe in build the Co. 1	
т.	(a)	Describe in brief the female reproductive organs.	5
	(b)	What are the functions of uterus?	5
	(c)	Explain the process of menstrual cycle.	10

- (a) 5. Explain the structure of Thyroid Gland with 8 the help of suitable diagram. (b) Enlist the various functions of the thyroid 4 gland. (c) Describe the disorders caused by hypo 8 secretion or hyper secretion of the thyroid hormones. 6. (a) Describe the structure of eye with the help 8 of a suitable diagram. (b) Explain the various disorders of image 12 formation with suitable diagrams. Explain the structure of stomach with help 7. (a) 6 of suitable diagram. Describe the mechanism of secretion of the (b) gastric juice. Write the composition and functions of the (c) 7 gastric juice. v.ignouassignmentguru.com 8. Write Short Notes on Any Four of the following:
 - (a) Anaemia 5+5+5+5
 - (b) Emergency contraception
 - (c) Communication between neurons
 - (d) Cataract
 - (e) Kidney Transplant

MFN-001

MASTER OF SCIENCE (DIETETICS AND FOOD SERVICE MANAGEMENT)

Term-End Examination

June, 2013

MFN-001: APPLIED PHYSIOLOGY

Time	: 3 hc	ours	Maximum Marks: 100			
Note	: (i) (ii) (iii)	Attempt any five Question No. 1 is All questions carr	com	ipulsory.		
1.	(a)	Match column 'A	Y w:		1x10=10	
		A		В		
ww	(i) (ii)	Growth Vitamin C		Maturation of fund Blood clotting	ction	
	(iii)	Vitamin B ₁₂	(C)	Ribosome		
	(iv)	Vitamin K	(D)	Scurvy		
	(v)	Development	(E)	Increase in size		
	(vi)	Lysosome	(F)	Extra uterine erytl	ropoiesis	
	(vii)	De differentiation	(G)	Intracellular Diges	tion	
	(viii)	Endoplasmic Surface	(H)	Reverting back to meristematic state		
	(ix)	Cell Theory	(I)	Megablastic Anaer	nia	
	(x)	Bone Marrow	(J)	Omnis cellulae -e c		
			(K)	AB Group		

Briefly explain the following terms:

2x5=10

		(i) Platelet	
		(ii) Prokaryotic cell	
		(iii) Age related changes in body systems	
		(iv) Types of antibodies	
		(v) Types of connective tissues	
2.	(a)	Discuss the factors affecting the blood 1 pressure.	4
	(b)	How will you keep your heart healthy?	6
3.	(a)	What are the neural mechanisms for control of respiration?	6
	(b)	Discuss the functions of centres in brain that 1	4
1/10/10/	ia	regulate the respiration.	
V VV VV	.15	nouassignmentguru.con	
4.	(a)	Describe the structure of tongue with the 1 help of a diagram.	2
	(b)	Discuss the functions of salive.	8
5.	(a)	What is GFR? Describe the factors affecting GFR. 2+1	.0
	(b)	Discuss the formation of urine through selective reabsorption.	8

(b)

- (a) Discuss the process of synaptic transmission 12 with the help of a diagram.
 (b) Draw a diagram of the neuron and 8 enumerate its functions.
 7 (a) Enlist the hormones secreted from 4
- 7. (a) Enlist the hormones secreted from 4
 Pancreas.(b) Discuss the regulation of secretion of insulin. 10
 - (c) Explain the functions of insulin. 6
- 8. (a) What is the role and function of the 6 placenta?
 - (b) Describe the growth and development of fetus 14 upto 32 weeks of gestation.

00200

No. of printed pages: 3

MFN-001

MASTER OF SCIENCE (DIETETICS AND FOOD SERVICE MANAGEMENT)

Term-End Examination December, 2013

MFN-001: APPLIED PHYSIOLOGY

	Time: 3 hours					um Marks : 100
	Note	e : (i) (ii) _	Atte			
		, ,		tion No. 1 is compulsor	-	
		(iii)	Au q	uestions carry equal ma	irks.	
	1.	(a)	Matc	h column 'A' with col	lumn 'I	B': 1x10=10
				A		В
			(i)	William Harvey	(A)	Cork cell
			(ii)	DNA	(B)	Cell wall
			(iii)	Prokaryotic Cell	(C)	Eosinophil
			(iv)	Granulocyte	(D)	Genetic
N	ww	ig/	noi	uassignmei	ntgi	material
_		0	(v)	Robert Hooke	(E)	AB Group
			(vi)	Organelles	(F)	Physiologist
			(vii)	Glycoproteins	(G)	Cytoplasm
			(viii)	Eukaryotic Cell	(H)	Erythropoietin
			(ix)	Plate lets	(I)	Absence of
						nuclear
						membrane
			(x)	Universal Receipient	(J)	ITP
					(K)	Vitamin B ₁₂

Briefly explain the following terms: 2x5=10

		(i) Phagocytosis	
		(ii) Function of Plasma Proteins	
		(iii) Steps of mitosis	
		(iv) Cytoskeleton	
		(v) Theories of Ageing	
2.	(a)	What are the uniqueness of heart?	10
۷.	. ,	-	10
	(b)	Briefly describe the Cardiac Cycle.	10
		1	
3.	(a)	Explain the composition of air.	4
	(b)	Describe the transport of oxygen in blood.	16
4.	(a)	Name the enzymes secreted by small intestine.	4
VV\	(b)	Discuss the digestion of food in the small intestine.	16 .C
5.		ribe the renal function tests done commonly ractice.	20
6.	(a)	What are the various processes of transport through cell membrane ?	5
	(b)	Discuss the passive transport mechanism in detail.	15

(b)

- 7. (a) What are the parts of midbrain? 4
 - (b) Discuss the structure and functions of: 8+8
 - (i) Cerebellum and
 - (ii) Spinal Cord
- (a) Describe the structure of eyeball, with the 14
 help of diagrams.
 - (b) Compare the properties of rods and cons. 6



00885

No. of Printed Pages: 4

MFN-001

M.SC. (DFSM)

Term-End Examination June, 2014

MFN-001: APPLIED PHYSIOLOGY

Time: 3 hours Maximum Marks: 100

Note: Question 1 is compulsory. Attampt five questions.

All questions carry equal marks.

- 1. (a) Give one example of each of the following:
 - i) Connective Tissue
 - ii) Types of Joints.
 - iii) Disorders of Image formation.
- iv) Male Reproductive organs.
 - v) Hormones secreted by Pineal Gland
 - vi) Modern methods of contraception
 - vii) Types of Immunity.
 - viii) Enzymes of Gastric Juice.

	ix)	Parts of Nerve cells.	
	x)	Parts of Large Intestine.	
	(b)	Explain each of the following terms in 2-3 sentences:	10
	i)	Dialysis.	
	ii)	Enzymes.	
	iii)	Parkinson's disease	
	iv)	Osmosis.	
	v)	Cataract	
2.	(a)	Describe the muscles which help in the respiration.	10
W	(b)	Explain the chemical control of 1 respiration.	0
3.	(a)	Explain the process of urine formation 1	0
	b)	Describe the normal and abnormal constituents of the urine.	0

4.	a)	What is anaemia?	5
	b)	Classify the anaemia.	5
	c)	Describe the physiological causes of different types of anaemia.	10
5.	a)	Enumerate the types and functions of the cranial nerves.	10
	b)	Explain a synapse and the process of synaptic transmission.	10
6.	a)	Describe the composition and functions of the bile juice.	10
	b)	Explain the process of digestion of proteins in the human body.	10
7.	(a)	Describe the structure and functions of the middle ear.	8
	b)	Explain the various disorders related to the hearing and their management.	12

- 8. Write short Notes on *any FOUR* of the 5+5+5+5 following:
 - a) Hypertension
 - b) Physiological changes during lactation
 - c) Renal function Tests.
 - d) Female contraceptives
 - e) Balanced Dict.



MFN-001

00521

MASTER OF SCIENCE (DIETETICS AND FOOD SERVICE MANAGEMENT)

Term-End Examination

December, 2014

MFN-001: APPLIED PHYSIOLOGY

<i>Time</i> : 3 ho	ours	N	1aximum Marks : <mark>10</mark> 0
Note: (i)	Atte	empt any five questions.	
(ii)	Que	stion No. 1 is compulsory.	
(iii)	All a	questions carry equal mark	ks.
1. (a)	Give	e one example of each of	the following :
	(i)	Types of White Blood (Cells 1x10=10
	(ii)	Types of Muscles	
	(iii)	Organs of Immune Sys	stem
	(iv)	Organs of Female Repro	oductive System
	(v)	Enzymes in the Pancre	eatic Juice
	(vi)	Bones of the middle ear	r
	(vii)	Endocrine Glands	
www.i	(viii)	Abnormal constituents	of the urine
	(ix)	Sensory organs of hear	ring
	(x)	Retinal cells	
(b)	Expl	ain in 2-3 sentences each	of the following
	term	s:	2x5=10
	(i)	Antibody	
	(ii)	Ageing	
	(iii)	Grave's Disease	
	(iv)	Polycythaemia	
	(v)	Hormones	

(a)

(b)

MFN-001

2.

3.

Explain

Hypertension.

the pathophysiology

Discuss the factors affecting blood pressure.

Enumerate the hormones produced by the adrenal

of

10+10

	corte	x and describe their functions.	5+15
4.	(a)	Describe the structure and functions of the nephron.	e 10
	(b)	Explain the two processes involved in the transportation of substances across the cel membrane.	
5.		ribe the structure and functions of the Centra rous System (CNS).	al 20
6.	(a)	Describe the composition of blood.	10
	(b)	Explain the various functions of blood.	10
7.	(a)	Describe the structure of the salivary glands	s. 10
/W\	(b)	Write the composition and functions of the Saliva.	
8.	Writ	e short notes on any four of the following:	
	(a)	Female Reproductive organs. 5+5	5+5+5
	(b)	Disorders of image formation by the eye	
	(c)	Types of tissues	
	(d)	Innate Immunity	
	(e)	Disorders of Thyroid Gland.	

ई.आर.डी.-01

स्नातक उपाधि कार्यक्रम सत्रांत परीक्षा दिसम्बर, 2014

ई.आर.डी.-01 : भारत में ग्राम विकास

समय : 3 घण्टे

अधिकतम अंक : 100

नोट: खंड 'क' से किन्हीं दो प्रश्नों, खंड 'ख' से चार प्रश्नों और खंड 'ग' से पाँच प्रश्नों के उत्तर दीजिए।

खंड - क

किन्हीं दो प्रश्नों के उत्तर दीजिए। प्रत्येक प्रश्न का उत्तर लगभग 500 शब्दों में हो। प्रत्येक प्रश्न के 20 अंक हैं।

- 1. भारतीय समाज की ग्रामीण सामाजिक संरचना को स्पष्ट कीजिए। 20
- पंचायती राज संस्थाओं के उद्देश्यों, संरचना तथा कार्यों का 20
 - पंचायती राज संस्थाओं के उद्देश्यों, संरचना तथा कार्यों का 20 वर्णन कीजिए।
 - 3. सूखा प्रवण क्षेत्र कार्यक्रम की व्याख्या कीजिए। 20
 - 4. राष्ट्रीय ग्रामीण रोजगार कार्यक्रम की कार्रवाई संबंधी समस्याओं 20 पर प्रकाश डालिए।

खंड-ख

	किन्हीं चार प्रश्नों के उत्तर दीजिए। प्रत्येक प्रश्न का उत्तर लगभग 250 शब्दों में हो। प्रत्येक प्रश्न के 10 अंक हैं।	
5.	ग्राम विकास योजना से संबंधित कार्यप्रणाली की संक्षेप में विवेचना कीजिए।	10
6.	प्रबंध के विभिन्न कार्यों का वर्णन कीजिए।	10
7.	पंचायती राज संस्थाओं के इतिहास का मूल्यांकन कीजिए।	10
8.	मरुस्थल विकास कार्यक्रम की संक्षिप्त व्याख्या कीजिए।	10
9.	ग्रामीण बेरोजगारी की प्रमुख विशेषताओं का वर्णन कीजिए।	10
10.	ग्रामीण भूमिहीन रोजगार गारंटी कार्यक्रम के विशिष्ट कार्यक्रम दृष्टिकोण की संक्षेप में व्याख्या कीजिए।	10
	खंड-ग निम्नलिखित में से किन्हीं पाँच पर प्रत्येक लगभग 100 शब्दों में टिप्पणियाँ लिखिए। प्रत्येक भाग के चार अंक हैं।	Rl
11.	(a) ग्रामीण क्षेत्रों में महिला व बाल विकास का परियोजना कार्यकलाप	4
	(b) ग्रामीण प्रौद्योगिकी का हस्तांतरण	4
	(c) देखरेख में निर्धारित समयबद्ध कार्यक्रम का पालन	4
	(d) सहकारिता का विकास	4
	(e) ग्रामीण जल आपूर्ति स्कीम (RWS)	4
	(f) ग्राम विकास और अंतर्राष्ट्रीय संस्थाएँ	4
	(g) गुड़गाँव परियोजना	4
	(h) क्षेत्रीय ग्रामीण बैंक	4

02965

No. of printed pages: 3

MFN-001

MASTER OF SCIENCE (DIETETICS AND FOOD SERVICE MANAGEMENT)

Term-End Examination June, 2015

MFN-001: APPLIED PHYSIOLOGY

Time: 3 hours		Maximum Marks: 100
Note : (i) (ii) (iii)	Attempt any five questions Question No. 1 is compulse All questions carry equal m	ory.
1. (a)	Give one example for following: (i) Enzyme of Gastric Ju (ii) Connective Tissue (iii) Type of muscle tissue (iv) Type of Antibody (v) Unicellular organism (vi) Renal Function Tests (vii) Errors of refraction (viii) Endocrine Glands (ix) Retinal Nerve Cells	1x10=10 aice e
(b)	 (x) Spinal nerves Briefly explain the followard 2 - 3 sentences each: (i) Cyanosis (ii) Tidal Volume (iii) Alzheimer's disease (iv) Enzymes (v) Puberty 	owing terms in 2x5=10

- 2. (a) Explain the structure and functions of the heart. 10+10
 - (b) Describe the unique properties of the heart.
- 3. (a) Explain the structure and functions of the stomach. 10+10
 - (b) Describe the composition and functions of the gastric juice.
- 4. Describe the structure and functions of the Autonomic Nervous System. 5+15
- 5. (a) Draw and label the different parts of a 6+4 nephron. Enlist the various functions of kidney.
 - (b) Explain the process of urine formation in 10 the human body.
- 6. (a) What do you understand by the term "Endocrine Glands"? 4+4+12
 - (b) Enlist the endocrine glands present in human body.
 - (c) Describe the structure and functions of any of the endocrine glands.
- 7. Explain the following terms briefly: 4x5=20
 - (a) Sinus Bradycardia
 - (b) Sinus Tachycardia
 - (c) Sinus Arrhythmias
 - (d) Ventricular Fibrillation
 - (e) Secondary Hypertension

- 8. Write short notes on any four of the following:
 - (a) Functions of Liver

5+5+5+5

- (b) Mid Brain
- (c) Contraception
- (d) Structure and function of middle ear
- (e) Mechanics of Respiration



48

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02

MFN-001

MASTER OF SCIENCE (DIETETICS AND FOOD SERVICE MANAGEMENT)

Term-End Examination
December, 2015

MFN-001: APPLIED PHYSIOLOGY

Time: 3 hours Maximum Marks: 100 **Note** : (i) Attempt any five questions. Question No. 1 is compulsory. (ii) (iii) All questions carry equal marks. 1. (a) Give one example for each of the following: (i) Enzyme of intestinal juice $1 \times 10 = 10$ (ii) Type of Muscular Tissue Type of Joint (iii) (iv) Cranial Nerve Temporary method of female (v) contraception (vi) Disorder of Thyroid Gland www. (vii) Constituent of Bile (viii) Liver Function Test (ix) Type of White Blood Cells (x) Bone of Middle Far Briefly explain the following terms: (b) 2x5=10(i) Autoimmunity (ii) Contraception (iii) Cardiac output (iv) Glaucoma (v) Vital Capacity

- 2. Describe various external and internal defence 20 mechanisms of human body.
- **3.** (a) Define ageing. **2+8+10**
 - (b) Explain various theories of ageing.
 - (c) Describe various age related changes observed in body system.
- 4. Describe the composition and functions of the blood.
- 5. (a) Explain the process of urine formation. 8+12
 - (b) Describe the normal and abnormal constituents of the human urine.
- 6. (a) Explain the structure and functions of the pancreas. 10+10
 - (b) Describe the composition and function of bile juice.
- 7. (a) Describe the structure of the Eye with the help of suitable diagram. 10+10
 - (b) Discuss the disorders of image formation by the eye and their correction.
- **8.** Write short notes on **any four** of the following:
 - (a) Hormones secreted by Pituitary Gland 5+5+5+5
 - (b) Lobes of Cerebral Cortex
 - (c) Structure of tongue
 - (d) Causes of female infertility
 - (e) Male Puberty

MFN-001

P.T.O.

00370

MFN-001

MASTER OF SCIENCE (DIETETICS AND FOOD SERVICE MANAGEMENT)

Term-End Examination

June, 2016

MFN-001: APPLIED PHYSIOLOGY

Time: 3 hours Maximum Marks: 100 Attempt any five questions. *Note* : (i) Question No. 1 is compulsory. (ii) All questions carry equal marks. (iii) 1. (a) Give one example for each of the following: (i) Short bones 1x10=10 Blood cells (ii) (iii) Male reproductive organs (iv) Enzymes of the Gastric Juice (v) Liver functions tests Parts of large intestine (vi) (vii) Hinge Joint (viii) Modern -methods of female contraception (ix) Signs of vitamin A deficiency (x) Types of Anaemia (b) Explain the following terms in 2-3 sentences each: 2x5=10(i) **Antigen** (ii) **Enzymes** (iii) Anaemia (iv) Inflammation (v) Leukocytosis

2.	(a)	Describe the composition and functions of	8
	(b)	the bile juice. Explain the process of digestion of proteins in the body.	12
3.	(a)	With the help of suitable examples, differentiate between active and passive mechanism of transport across the cell membrane.	10
	(b)	Describe in brief the renal function tests used to evaluate the renal function in a patient.	10
4.	(a)	Draw a labelled diagram of the eye.	6
	(b)	Describe the various disorders of image formation by the eye.	14
5.	(a)	Draw a labelled diagram of female reproductive system.	8
	(b)	Describe in brief the disorders affecting the reproductive function.	12
6.	(a)	What is anaemia ?	3 7
	(b)	How would you classify anaemias?	7
	(c)	Describe the various causes of anaemia and their prevention.	10
7.	(a)	Enlist the various endocrine glands present in human body.	C 51
	(b)	Describe in detail the structure and functions of thyroid gland.	15
8.	W/rit	te short notes on any four of the following:	
0.	(a)		+5+5
	(b)	Structure and functions of Liver	
	(c)	Composition and functions of the Saliva	
	(ď)	Factors affecting Hypertension	
	(e)	White Blood Cells (Leukocytes)	

MFN-001

MASTER OF SCIENCE (DIETETICS AND FOOD SERVICE MANAGEMENT)

02939

Term-End Examination

December, 2016

MFN-001: APPLIED PHYSIOLOGY

Time: 3 hours

Maximum Marks: 100

- Note: (i) Attempt any five questions.
 - (ii) Question No. 1 is compulsory.
 - (iii) All questions carry equal marks.
- 1. (a) Give one example for each of the following: 1x10=10
 - (i) White Blood Cells
 - (ii) Flat bones
 - (iii) Epithelial Tissue
 - (iv) Enzymes in Pancreatic Juice
 - (v) Abnormal Constituents of the urine
 - (vi) Female Reproductive Organs
 - (vii) Connective Tissue
 - (viii) Parts of small intestine
 - (ix) Disorders of image formation by the eve
 - (x) Renal Function Tests
 - (b) Explain the following terms in 2-3 sentences each:
 - (i) Hormones

2x5=10

- (ii) Night Blindness
- (iii) Leucopenia
- (iv) Synapse
- (v) T Cells

2.		ribe the structure and functions of the ral Nervous System (CNS).	20
3.	(a)	Describe in brief the various functions of the blood.	10
	(b)	Discuss the various factors affecting the Blood Pressure (BP).	10
4.	(a)	With the help of suitable diagram describe the structure of respiratory system.	8
	(b)	Discuss the chemical control of respiration.	6
	(c)	How will you provide artificial respiration?	6
5.	(a)	Describe the structure of excretory system with the help of suitable diagram.	8
	(b)	How does the kidneys maintain pH	6
		balance?	_
	(c)	Discuss in brief the renal function tests.	6
6.	(a)	Enumerate the cranial nerves.	6
	(b)	Discuss the effect of sympathetic and parasympathetic stimulations on the body system.	14
7.	(a)	What do you understand by the term	4
WW	(b)	'ageing' ? Describe the various theories of ageing.	016
	(c)	Explain the age related changes seen in	10
	(0)	different systems of the body.	10
8.	Write	e short notes on any four of the following:	
	(a)	Methods of contraception in females. 5x4	1=20
	(b)	Refractive Errors.	
	(c)	Prevention of Anaemia in pregnant women.	
	(d)	Types of White Blood Cells (WBCs).	
	(e)	Physiology of Lactation.	

MFN-001

LO 0222

MASTER OF SCIENCE (DIETETICS AND FOOD SERVICE MANAGEMENT)

Term-End Examination

June. 2017

MFN-001: APPLIED PHYSIOLOGY

Time: 3 hours

Maximum Marks: 100

- Note: (i) Attempt five questions in all.
 - Question No. 1 is compulsory. (ii)
 - (iii) All questions carry equal marks.
- Give one example of each of the following: 1. (a)
 - 1x10=10(i) Types of immunity.
 - Hormones secreted by Pituitary (ii) Gland.
 - Cranial Nerves. (iii)
 - (iv) Blood Cells.
 - Types of Deafness. (v)
 - (vi) Ventricles of Brain.
 - (vii) Types of Malnutrition.
 - (viii) Liver Function Tests.
 - Disorders of platelets. (ix)
 - (x) Retinal Nerve Cells.
 - (b) Explain the following terms in 2-3 sentences each: 2x5 = 10
 - (i) Facilitated Diffusion.
 - (ii) Hypoxia.
 - Bundle of HIS. (iii)
 - (iv) Pyloric orifice.
 - (v) Homeostasis.

MFN-001

1

P.T.O.

(a) Draw a labelled diagram of digestive system.(b) Describe the process of digestion of food in

the small intestine. 10+10

3. (a) What are the various processes of transport 5+15 through cell membrane?

(b) Discuss the passive transport mechanism in detail.

- 4. Explain the following in brief: 10+10
 - (a) Haemodialysis
 - (b) Renal Function Tests
- 5. (a) Describe the structure of eye ball with the 12+8 help of diagrams.
 - (b) Compare the properties of rods and cones.
- 6. (a) What is Blood Pressure? 4+6+10
 - (b) Explain the various factors affecting the Blood Pressure.
 - (c) Discuss in detail the various B.P. regulatory mechanisms.
- 7. (a) Describe in brief the female reproductive organs. 5+5+10
 - (b) What are the various functions of the uterus?
 - (c) Explain the process of menstrual cycle.
 - 8. Write short notes on any four of the following:
 - (a) Types of Immunity. 5+5+5+5
 - (b) Contraception.
 - (c) Errors of refraction.
 - (d) Blood Cells.
 - (e) Disorders of Thyroid Gland.
 - (f) Types of Connective Tissue.

MFN-001

P.T.O.

02853

MFN-001

MASTER OF SCIENCE (DIETETICS AND FOOD SERVICE MANAGEMENT)

Term-End Examination December, 2017

MFN-001: APPLIED PHYSIOLOGY

Time: 3 hours		Maximum Marks: 100	
Note: (i)	Attempt five questions in a	all.	
(ii)	Question No. 1 is compuls	sory.	
(iii)	All questions carry equal	marks.	
1. (a)	Give one example of each (i) Types of Anaemia.	of the following : 1x10=10	
	(ii) Disease of eye.(iii) Renal Function Tes(iv) Chambers of Heart		
	(v) Endocrine Glands.		
	(vi) Female Contracepti	ive.	
www	(vii) Process of Cell Divi	sion ntguru.con	
	(viii) Types of Connective	e Tissue	
	(ix) Spinal nerves		
	(x) Abnormal Constitue	ents of Urine.	
(b)	Briefly explain the follow sentences each:	wing terms in 2-3	
	(i) Auto immunity	2x5=10	
	(ii) Haemodialysis		
	(iii) Cardiac out put		
	(iv) Cochlea		
	(v) Blood Urea Nitroge	n (BUN)	

2.	(a) (b)	Describe the structure and functions of the heart. Discuss the factors affecting the Blood Pressure.
3.		ribe the structure and functions of the 20 nomic Nervous System.
4.	(a) (b)	Describe the mechanism of respiration. 12+8 Discuss the various neural mechanisms for control of respiration.
5.	(a) (b)	Describe the structure of ear with the help of suitable diagrams. 12+8 Discuss the functions of middle ear.
6.	(a) (b) (c)	Explain the structure of Liver with the help of suitable diagrams. 10+5+5 Enlist the various functions of liver. Describe the regulation of secretion of insulin.
7.	(a)	What is the role and function of the placenta? 5+15
WV	(b)	Describe the growth and development of foetus upto 32 weeks of gestation.
8.	Write (a) (b) (c) (d) (e) (f)	re short notes on any four of the following: Renal Function Tests 5+5+5+5 Contraception Gastric Juice Synaptic Transmission Refractive Errors Layers of Retina

MFN-001

MASTER OF SCIENCE (DIETETICS AND FOOD SERVICE MANAGEMENT)

Term-End Examination
June, 2018

MFN-001: APPLIED PHYSIOLOGY

Time: 3 hours Maximum Marks: 100

Note: (i) Attempt five questions in all.

- (ii) Question No. 1 is compulsory.
- (iii) All questions carry equal marks.
- 1. (a) Give one example for each of the following: 1x10=10
 - (i) White Blood Cells
 - (ii) Female Reproductive Organ
 - (iii) Short Bones
 - (iv) Endocrine Glands
 - (v) Kidney Functions Test (KFT)
 - (vi) Hinge Joint
 - (vii) Sign of Vitamin C deficiency
 - (viii) Types of Anaemia
 - (ix) Parts of Mid Brain
 - (x) Sign of Inflammation
 - (b) Explain the following terms in 2-3 sentences each: 2x5=10
 - (i) Polycythemia
 - (ii) Osmosis
 - (iii) Inflammation
 - (iv) Antibodies
 - (v) Atherosclerosis

Describe the composition and functions of 2. (a) 10+10 Gastric Juice. Explain the process of digestion in the (b) stomach. 10 + 103. (a) Draw a labelled diagram of ear. Explain the process of hearing. (b) Describe the structure and functions of Mid Brain 20 4. with the help of suitable diagrams. 3+7+10 5. What is 'Hypertension'? (a) How would you classify Hypertension? (b) Describe the various causes of hypertension (c) and its prevention. What is erythropoiesis? 2+8+10 6. (a) Describe the process of erythropoiesis. (b) Discuss various factors that regulate the (c) process of erythropoiesis. Explain the mechanics of respiration. 10+10 7. (a) Describe the interchange of gases within the (b) lungs that takes place during respiration. Write short notes on any four of the following: 8. Cranial Nerves (a) 5+5+5+5 (b) Theories of ageing (c) Haemostasis (d) Grave's Diseases Disorders of image formation by the human (e) eye

MFN-001

MASTER OF SCIENCE (DIETETICS AND FOOD SERVICE MANAGEMENT) (M.Sc. DFSM)

Term-End Examination

01022

December, 2018

MFN-001: APPLIED PHYSIOLOGY

Time: 3 hours Maximum Marks: 100

Note:

- 1. Answer five questions in all.
- 2. Question no. 1 is compulsory.
- 3. All questions carry equal marks.
- 1. (a) Give one example for each of the following: $10 \times 1 = 10$
 - (i) Female Contraceptives
 - (ii) Retinal Cell
 - (iii) Exocrine Glands
 - (iv) Cranial Nerves
 - (v) Ball and Socket Joint
 - (vi) Ventricles of the Brain
 - (vii) Renal Function Test
 - (viii) Types of Refractive Errors
 - (ix) Hormone secreted by Anterior Pituitary Gland
 - (x) Enzyme of Gastric Juice

MFN-001

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- (b) Explain the following in 2-3 sentences each: $5\times 2=10$
 - (i) Loop of Henle
 - (ii) Cardiac Output
 - (iii) Tidal Volume
 - (iv) Polycythemia
 - (v) Cirrhosis of Liver
- 2. (a) What is Blood Pressure?
 - (b) Explain the factors affecting blood pressure.
 - (c) Discuss the various blood pressure regulatory mechanism. 4+6+10
- 3. (a) Draw a labelled diagram of the Female Reproductive System.
 - (b) Explain the process of menstrual cycle. 10+10
- 4. (a) Draw a labelled diagram of the thyroid gland.
 - (b) Enlist various functions of the thyroid gland.
 - (c) Describe in brief the disorders caused by hypo-secretion or hyper-secretion of thyroid hormones. 8+4+8

- **5.** (a) Describe the structure of the eye with the help of suitable diagram.
 - (b) Explain in brief the various disorders of image formation with the help of suitable diagrams.

 10+10
- **6.** (a) Explain the structure of the stomach with the help of suitable diagram.
 - (b) Describe the process of digestion of food in the stomach.

 10+10
- 7. Describe the process of urine formation with the help of suitable diagram.20
- 8. Write short notes on any **four** of the following: 5+5+5+5

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- (a) Anaemia
- (b) Specific Acquired Immunity
- (c) Mechanism of Respiration
- (d) Nerve Cell Morphology
- (e) Liver Function Tests

MFN-001

MASTER OF SCIENCE (DIETETICS AND FOOD SERVICE MANAGEMENT)

TERM-END EXAMINATION

MFN-001: APPLIED PHYSIOLOGY Time: 3 Hoursl [Maximum marks: 100 Note: Attempt five questions in all. Question no.1 is compulsory. All questions carry equal marks. 1. Give one example of each of the following: (a) · (i) Vitamin necessary for night vision (ii) Prokaryotic Cell (iii) **Humour in Ayurvedic Concept** Agranulocyte (iv) Macrophage (v) Phase of Respiration (vi) (vii) Composition of Bile (1)MFN-001 [P.T.O.]

		(viii)	Part of Large Intestine				
		(ix)	Hormone Produced by Kidney				
		(x)	Neurotrans mitter				
	(b)	Briefly explain the following terms in 2-3					
		senten	ces each :	[2×5=10]			
		(i)	De-differentiation cells				
		(ii)	Significance of miosis				
		(iii)	Osmotic pressure				
		(iv)	Function of platelet	GUR			
		(v)	N K cells				
WW 2.	(a)	What is	s the uniqueness of our heart?	[8]			
	(b)	Discus	s the nervous control mechanis	m of heart			
		and blo	ood vessels.	[12]			
3.	(a)	What is	s respiratory centre?	[6]			
	(b)	Describ	oe the chemical control of res	piration in			
		detail.		[14]			

4 :	4. (a) What are the G. I. Hormones?				
•	(b)	How is fat absorbed and utilised in the	ie human		
		body?	[14]		
5.	(a)	How are the molecules transported a	cross the		
		cell membranes ?	[6]		
	(b)	Describe the passive transport mech	nanism in		
	1	detail.	[14]		
6.	(a)	Make a labelled diagram of Eyeball.	[8]		
	(b)	Discuss the microscopic structure and	functions		
	,	of retina with the help of diagram.	[12]		
www	(a).	What do you understand by Non	-specific		
		Defence Mechanism ?	[3]		
	(b) _.	What are the types of internal	defence		
		mechanisms ?	[5]		
	(c)	Discuss in detail about the role of leuc	ocytes in		
		internal defence mechanism.	[12]		

8. Write short notes on any four of the following:

[5+5+5+5=20]

- (a) Endoplasmic Reticulum
- (b) Smooth muscle
- (c) Megaloblastic Anaemia
- (d) Classification of antibodies
- (e) Chloride shift
- (f) Digestive function of Pancreas

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MASTER OF SCIENCE (DIETETICS AND FOOD SERVICE MANAGEMENT)

Term-End Examination, 2019

MFN-001: APPLIED PHYSIOLOGY

Time: 3 Hours [Maximum Marks: 100

Note: Attempt five questions in all. Question No. 1 is compulsory. All questions carry equal marks.

1. (a) Give one example of each of the following:

[1x10=10]

(i) Self replicating cytoplasmic organelle of plant

- (ii) Granulocyte
- (iii) Site of erythropoiesis at 3-4 month intrauterine life
- (iv) Large vein supplying blood to right atrium

(v) Part of pharynx

MFN-001/3000

1)

		(vi)	Salivary gland	
		(vii)	Enzyme of Pancreas	
		(viii)	Gastrointestinal hormone	
		(ix)	Lobe of cerebral cortex	
		(x)	Organism that never die	
	(b)		y explain the following term	s in 2-3 [2x5=10]
		(i)	Undifferentiated cell	
		(ii)	Classification of animal tissue	URU
		(iii)	Sickle cell anemia	
VVV	w.ig	(iv)	Bence-Jones protein	u.con
		(v)	Dead space	
2.	(a)	What	is cell cycle ?	[4]
	(b)	Name	the phases of cell cycle.	[4]
	(c)	Discu	ss the mitosis process with diag	rams.[12]

What is acquired immunity? [2] 3. (a) What are the types of acquired immunity? [2] (b) (c) Discuss in detail about the cell mediated immune [16] system. [4] (a) List the organs of Respiratory system. 4. Discuss with diagram the structure and functions (b) of Lungs. [8+8] What is the composition and function of gastric 5. (a) * [6+6]juice? Discuss the mechanism of secretion of gastric (b) [8] juice. What is the functional unit of Kidney? [2] (b) Discuss its structure with suitable diagram. [6] (c) Explain the various functions of the functional unit [12] of Kidney. 7. (a) Draw a labelled diagram of nerve cell. [6] (b) How do the nerves communicate? [6]

(3)

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[P.T.O.]

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- (c) Discuss the process of synaptic transmission. [8
- 8. Write short notes on **any four** of the following: [5x4=20
 - (a) Functions of Pituitary gland
 - (b) Disorders of image formation of eyes
 - (c) Mechanism of Phagocytosis
 - (d) Cardiac cycle
 - (e) Structure and functions of antibody
 - (f) Age related changes in alimentary canal

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MFN-001

MASTER OF SCIENCE (DIETETICS AND FOOD SCIENCE MANAGEMENT) M. Sc. (DFSM)

Term-End Examination
June, 2020

MFN-001 : APPLIED PHYSIOLOGY

Time: 3 Hours

Maximum Marks: 100

- Note: (i) Attempt five questions in all.
 - (ii) Question No. 1 is compulsory.
 - (iii) All questions carry equal marks.
- 1. (a) Give one example of each of the following:

1 each

- (i) Functions of Liver
- (ii) Disorders of Thyroid Gland
- (iii) Cranial Nerves
- (iv) Functions of Autonomic Nervous System

	•	
·	[2]	MFN-001
•	(v) Types of White Blood Cells	
	(vi) Enzymes in Pancreatic Juice	
	(vii) Retinol Cells	
	(viii) Male Reproductive Organs	
	(ix) Abnormal constituents of Uri	ne
	(x) Signs of Vitamin A Deficiency	7
(b)	Briefly explain the following 2-3 sentences each:	terms in 2 each
	(i) Innate Immunity (ii) Hinge Joint	GURL
	(iii) Phagocytosis	
www.igi	(iv) Dialysis	u.com
	(v) Ketone Bodies	
2. (a)	What is Blood Pressure?	. 4
(b)	Explain various factors affecting	the blood
	pressure.	6
(c)	Describe the various blood	pressure

10

1

3.

regulatory mechanisms.

"Nutrition"?

(a) What do you understand by the term

[3]

	(b)	Describe the classification of the
	•	nutrients. 6
	(e)	Discuss the relation of various nutritional
		components with their physiology. 10
4	l. (a)	Describe the structure of eye with the help
		of suitable diagram.
	(b)	Discuss the signs and symptoms of
		Vitamin A deficiency and their corrective
		measures. 12
5	. (a)	Describe the structure and functions of
		Thyroid Gland. 10
VVV	(b)	Discuss the various disorders caused by
		hyposecretion and hypersecretion of
		thyroid hormones. 10
6	. (a)	Explain the structure of stomach with the
		help of suitable diagram(s).
	(d)	Describe the mechanism of secretion of
		gastric juice and its composition and
		functions. 12

MFN-001

- 7. (a) Describe the female reproductive system with the help of suitable diagrams. 12
 - (b) Explain the process of menstrual cycle. 8
- 8. Write short notes on any four of the following:

5 each

- (a) Anaemia
 - (b) Endocrine Glands
- (c) Cataract
- (d) Kidney Transplant
- (e) Cardiac Cycle
- (f) Autonomic Nervous System

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MFN-001

MASTER OF SCIENCE (DIETETICS AND FOOD SERVICE MANAGEMENT)

M. SC. (DFSM)

Term-End Examination December, 2020

MFN-001: APPLIED PHYSIOLOGY

Time: 3 Hours Maximum Marks: 100

Note: Attempt five questions in all. Question No. 1 is compulsory. All questions carry equal marks.

1. (a) Give *one* example of each of the following:

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- (i) Renal function test
- (ii) Modern methods of female contraception
- (iii) Blood cells
- (iv) Disorders of Image Formation by the eye
- (v) Disorders related to Pulse Rate
- (vi) Parts of Mid Brain
- (vii) Signs of Vitamin A deficiency

Lot-I P. T. O.

- (b) sentences each: $2 \times 5 = 10$
 - Salivary Glands (i)
 - (ii) Bile Juice
 - (iii) Prostate Gland
 - (iv) Leucocytes
 - (v) Signs of inflammation
- 2. Describe the structure and functions of Central Nervous System (CNS) with the help of suitable diagrams.
- Describe the structure and functions of the 3. heart with suitable diagrams. 20
- (a) Describe the structure of Salivary Glands.8 4.
 - (b) Explain the process of digestion of food in our body. 12
- labelled diagram of female 5. (a) Draw a reproductive system. 8
 - Describe the growth and development of (b) foetus up to 32 weeks of gestation. 12

6.	(a)	With	the	help	of	diagrams,	describe
		various types of tissues. 10					10
	(b)	Discus	s var	ious th	eori	es of ageing	. 10
7.	(a)	a) Describe the structure of eye with the help of suitable labelled diagram. 8					the help
							8
	(b) Discuss various types of refractive errors.						ve errors.
		How c	an th	ey be c	orre	cted?	12
8.	Wri	te short notes on any <i>four</i> of the following:					
		I	07	n		517	5 each
	(a)	Liver	Funct	ion Te	sts		
	(b)	Dialys	is	IGI		JENIT	CHDI
	(c)	Functi	ions o	f lungs	3	/IENI	GURL
	(d)	Endoc	rine (Glands			
ww	(e)	Middle	e Ear	ssig	nr	nentgu	ıru.com

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Abnormal Constituents of urine

(f)