E: DHFS-11

ROLL No. J. End /21-22

#### FOOD CRAFT INSTITUTE, AMU CAMPUS ALIGARH ACADEMIC YEAR 2021-2022

RSE : Post Graduate Diploma in Dietetics & Hospital Food Service

UBJECT: Human Physiology

Semester: 1st Semester End Term

TIME ALLOWED : 2 Hours

MAX. MARKS: 50

(Marks allotted to each question are given in brackets)

Q.1. Write a short note any two of the following.		10 MARKS
<ul><li>a. Respiratory Disorders.</li><li>b. Types of Blood vessels</li><li>c. Digestion and absorption of proteins.</li></ul>		
Q.2. Describe Chloride Shift with the help of diagr	am.	10 MARKS
Explain the control of Respiratory mechanism	n.	
Q.3. Explain why Pituitary Gland is called as' the n	naster gland' of the body.	10 MARKS
Explain Erythropoiesis and its regulation.		
Q.4. What is an immune system? List the compor	ents of Immune system.	10 MARKS
Explain Kidney transplant and Hemodialysis	•	
Q.5. Match the following.  a. Contraction of uterus  b. Pineal Gland  c. Placenta  d. Chloride Shift  e. Eukaryotic Cell	i. HCO3 ii. Nourishes the foetus iv. Oxytocin v. True Nucleus vi. Melatonin	5 MARKS
		5 MARKS
Q. 6. Fill in the Blanks.  1. Cardiac Output is the product of  2. A person with a blood group  3 is called as Anti-Diuretic  4 helps in the digestion of fa  5. Lungs are located in cavit	hormone. t produced by liver.	CANAINIC

CODE: DHFS-12

ROLL No.....

# FOOD CRAFT INSTITUTE, AMU CAMPUS ALIGARH ACADEMIC YEAR 2021-22

COURSE: Post Graduate Diploma in I SUBJECT: Applied Biochemistry TIME ALLOWED: 2 Hours	receites et riospital rooti ser	Semester: Ist Semester End Term MAX, MARKS: 50
(Marks allotte	ed to each question are given	the same of the sa
Q.1. Describe the process of synthesis of synthesis of palmitic acid.	of long chain fatty acids in cell	ls. Also give energetics for the (10 MARKS)
Describe the sequence of events in oxidative? How much energy is ob	EMP pathway (glycolysis). W	hich steps of this pathway are pathway?
Q .2. Differentiate between any two of	the following:	(2x5=10  MARKS)
<ul> <li>a. Saturated and unsaturated fatty ac</li> <li>b. Glucogenic and ketogenic amino</li> <li>c. Amylose and amylopectin</li> </ul>		
Q. 3. Draw the structures of any five of	the following:	(5x2= 10 MARKS)
a. Ribulose	b. Starch	
c. Galactose	d. Tryptophan	
e. Palmitic Acid	f. Linoleic acid	
g. Glyceraldehyde		
Q.4. How does an enzyme work? Descr MARKS)	ibe the two main theories of en	nzyme action. (10
OR		
Explain the classification of horm	ones.	
4 64 - 6	Mousing	(4x2.5=10 MARKS)
Q.5. Write short notes on any 4 of the fo	ollowing.	
a. Danger of ketosis		
b. Prostaglandins	zymes	
<ul> <li>c. Diagnostic values of plasma en</li> <li>d. Regulation of cholesterol biosy</li> </ul>	nthesis	
d. Regulation of cholesteror blosy	initios.	
e. Types of lipoproteins f. Classification of carbohydrates		
		(10 MARKS)
Q.6. Fill in the blanks.		(10 MARKS)
1 is an op	otically active amino acid	gorbans of nancreas
2. Glucagon is secreted by	cells of Islets of Lan	gernans of panereas.
3. The protein part of enzyme is ca	alled	
4is also calle	ed as "good enoiesteror".	ato
Q.6. Fill in the blanks.  1 is an operation of the protein part of enzyme is called a second of the protein part of enzyme is called a second of the protein part of enzyme is called a second of the protein part of enzyme is also called a second of the protein part of the prote	nich glucose is broken down in	netabolism
hormone reviue	ales calcium and phosphoras i	il time e il tili.
<b>=</b> 01	OF EACH UNICE ALS	cond carbon atom.
8. Co-enzyme form of vitamin B-3	) IS	in of liver cells.
<ol><li>The urea cycle converts excess a</li></ol>	ammonia into urea and occurs	III OI HYOI COIIS.
10. There arepepti	de bonds in a tetrapeptide.	

#### CODE- DHFS-13

#### ROLL NO.....

#### FOOD CRAFT INSTITUTE, AMU CAMPUS ALIGARH

ACADEMIC YEAR 2021-22

COURSE: PG Diploma in Dietetics & Hospital Food Service.

SUBJECT: Therapeutic Diet -1 TIME ALLOWED: 3 Hours Semester: 1st Semester End Term

MAX .MARKS: 100

## (Marks allotted to each question are given in brackets)

Q.1- Discuss in detail about the role of the dietician in Nutrition and healthcare. What are the principles of therapeutic diet? (10)

Or

Discuss various steps involved in the nutrition care process in detail.

Q.2- Define fever? What are the causes of fever?

(10)

0-

Define infection? Explain metabolic changes during infection?

Q.3- Define obesity? Describe in detail about the health hazards of obesity?

(10)

Define underweight? What are the basic causes of underweight?

Q.4- Discuss in detail about the routine hospital diet? State with suitable example? (10)

Or

Write a short note on tube feeding. Discuss the different type of tube feeds used?

Q.5- Define Typhoid. State the principles involved in the dietary management for typhoid?

Or

Define Tuberculosis? State the principles involved in the dietary management for tuberculosis?

Q.6- What is HIV infection? Explain dietary recommendation for a patient suffering from HIV?

Or

What are the various methods of nutritional assessment? Discuss in detail.

Q.7- Define therapeutic diet? How therapeutic diet is different from normal diet? (10)

Q.8- Write a short note on any two:-

(5x2=10)

- a) Stages of NCP
- b) Soft diet
- c) Body Mass Index
- d) Surgical management to weight loss.

Q.9- Differentiate between (any two)-

(5x2=10)

- a) Acute fever & Chronic fever
- b) TPN & PPN
- c) Overweight & Obesity
- d) Enteral feed & Parenteral feed

	- 4	AU CAMII -21-2022	OE: DHFS-14 FOOL	T. Post Graduate Dij LOWED: 3 Hours (Marks allc
Q.10-Fill in the blanks:-			(10~1	
a) The two broad categories of fever are	&		$(10^{\times 1}=10)$	PA   PA
b) A person is classified as underweight when the BI	MI is less than			₹/ /
c) Full form of AIDS is				
d)is the first step in t	the Nutrition Care I	Process.		
e) Surgery for obese patient is advised in patients w	vith BMI more than		•••••	
f) There is percent increase in BMR with e increase in body temperature.		legree Fah	renheit	
g) Typhoid fever is caused by bacteriah) Tuberculosis affects				
h) Tuberculosis affects most of organs.	ften but may also b	e localized	in other	
i) If body weight is less by or more than grossly underweight.				
<ul> <li>j) The term overweight refers to a person with bod excess of ideal body weight.</li> </ul>	ly weight	p	percent	

Fill in the hise

ODE: DHFS-14

#### ROLL No..... FOOD CRAFT INSTITUTE, AMU CAMPUS ALIGARH **ACADEMIC YEAR 2021-22**

REE: Post Graduate Diploma In Dietetics & Hospital Food Service

BLECT: Nutritional Perspective In Community-I

Semester:1stSemester End Term

MAX, MARKS: 100

(Marks allotted to each question are given in brackets)

Q.1.	Fill in the blanks.	(10)
	One exchange of pulse contains about gm of fat.	
II.	There arefood groups in a food exchange list.	
IV.	The basic unit of carbohydrate is percent of the daily energy requirement.  The requirement of essential fatty acid is percent of the daily energy requirement.	vt.
v.	The amino acids that cannot be synthesized by the body are	
VI.	is a precursor of vitamin A.	
VII.	Carbohydrate in a plant is stored in the form of	
VIII.	The actual requirement of folic acid is mg/day for a normal healthy adult.	
IX.	Fatty acids in food are classified as and	
Χ.	in an extracellular fluid is necessary for maintaining acid-base balance.	
Q.2.	What are the five important stages of life cycle? Explain the nutrient needs of a low birth weight babies.	(10)
	OR	
	Write a short note on importance and role of sodium and potassium in our body.	
Q.3.	Describe the physiological changes that occur in aging and explain the nutritional change required to maintain healthy aging.	(10)
	OR What are the components of dietary fibre? Discuss the health benefits of dietary fibre.	
	What are the components of dictary have. Discuss the means	
Q.4.	Briefly explain any two:	(10)
a)	Role of Community Nutritionist	
b)	One serving portion of food	
c)	Glycaemic index	
0.5	With the short notes on any two:	(10)
Q.5.	Write short notes on any two:	,,
	Dietary fibre	
	Biological value	
c)	Demography	
Q.6.	Briefly explain the complications that can be faced by a pregnant lady.  OR	(10)
	Write a short note on health system in India.	
Q.7.	Enumerate the functions, deficiency and sources of vitamin A and D.	(10)
Q.8.	How does the protein affect the process of growth and development during childhood?  Write an RDA for protein, calcium and fat during childhood.  OR	(10)
	Differentiate between fat soluble and water soluble vitamins with example.	
	Differentiate perifect largorate and	

What do you understand by primary health care? Why maintaining a good primary health Q.9. care system is important. Define adolescence. Discuss the factors that influence the feeding pattern during Q.10. Briefly explain the classification of fat and its requirement at various stages of life cycle. (10)

Describe following in one or two lines.

- a) Vitamin K
- b) Scurvy
- c) Rickets
- d) NPU

CODE: DHFS-15

ROLL No.....

## FOOD CRAFT INSTITUTE, AMU CAMPUS ALIGARH

COURSE : Post Graduate Diploma in Dietetics & Hospital Food Service

SUBJECT: Nutrition Industry Management-I

TIME ALLOWED : 2 Hours

Semester: Ist Semester End Term

MAX. MARKS: 50

(Marks allotted to each question are given in brackets)

Q.1 Discuss the Principles of Scien	ntific Management given by Taylor?	10
	OR	
Discuss The Functions of Ma	nagement in detail?	
		(2x5=10)
Q.2 Write short notes on		
a) Staff	b) TQM	
	OR	(10)
Discuss The Atherosclerosis	in detail?	(20)
Q3. Discuss the following:-		(2x5=10)
a) Dyslipidaemia	<ul><li>b) Glycaemic Index (GI)</li></ul>	(2/3-20)
	OR	
a) Financial Account	ing b) Management of Accounting	
		(10)
Q.4 Discuss the Management of	Diabetes Mellitus by MNT	(10)
	OR	
Discuss the Complication of	Diabetes Mellitus in detail?	
		(* 4 40)
Q.5 Fill in the blanks: -		(1x1=10)
1) Full form of PCOD		
2) The of fo	od is how long it may be stored before to	ne quality deteriorates.
Name any two important	principles of managementan	d
Classical sign of Diabetes I	Mellitus are,, and	
5) Father of Scientific Manag	ement is	
6) Full form of HBA1C is	position of Level of management	in a large company.
	are management of	
8) Space, Material and start a	od pressure is known as	
9) The condition of High Bloc	u pressure is known as minimum.	
10) Full Form of GDM is		

ODE: DHFS-16

ROLL No.....

## FOOD CRAFT INSTITUTE, AMU CAMPUS ALIGARH ACADEMIC YEAR 2021-22

	ACADEMIC YEAR 2021-22	
A TEC	: Post Graduate Diploma in Dietetics & Hospital Food Service T: Food Safety in Food Service Establishment	Semester: Ist Semester End Term MAX. MARKS: 50
TME AL	1 AWED 12 Hours	
11.11.	(Marks allotted to each question are given in	Drackets)
1.	Define fermentation and explain step by step process of fermen	itation? [10]
	Explain how microorganisms are important in food and agricul	ture industries.
2.	Describe various factors which influence the growth of bacter	eria. Explain bacteriai growth carve
	How does microbial activity affect food preservation?	Discuss various methods of food
3	preservation.  (a) Discuss the objectives of food packaging.	[05] [05]
5.	(a) Discuss the objectives of food safety risk management.  (b) Write basic principles of food safety risk management.  OR  What do you understand by food adulteration? Discuss any to	hree methods used for detection of
	What do you understand by food adulteration? Discuss any adulterants.	
	The second secon	[4X 2.5]
4.	Write short notes on any four	
	(i) Bar coding	
	(ii) Structure of fungi	
	(iii) HACCP plan	
	(iv) Genetically modified tomatoes	
	(v) Antibiotics	
	(vi) Wine	
		[1X10]
5.	Fill in the blanks (i) enzyme acts as an oxygen scavengin	g system.
	(i) enzyme acts as an ony gen source general	B - 7
	(ii) Fermented soyabean is	
	CLAD form to	
	causes botulism.	
/	2.:\	ogy.
2	vii) Viral genome is surrounded by protein shell known as	
7	Study of fungi is called	
	ix) are those substances which are used	for making the products unsafe for
h	uman health consumntion	
(2	x)resist decolorization with acid	alcohol due to complex cell wall.

CODE: DHFS-21

# FOOD CRAFT INSTITUTE, AMU CAMPUS ALIGARH

### **ACADEMIC YEAR 2021-22**

COURSE: POST GRADUATE DIPLOMA IN DIETETICS & HOSPITAL FOOD SERVICE

SUBJECT: Therapeutic Dietetics-II

Semester/Term: IInd Semester/ End Term

TIME ALLOWED: 3 Hours

Max MARKS: 100

## (Marks allotted to each question are given in brackets)

Q-1 Bring out the nutritional importance of Pre & Post Operative conditions.

(10)

OR Differentiate between Anorexia Nervosa & Bulimia Nervosa. Explain its Nutritional & Psychological Management.

Q-2 Define Peptic ulcer. Explain the types of Peptic ulcers.

(10)

Define Pancreatitis? Explain the nutritional management in Pancreatitis.

Q-3 Define Diarrhoea. Explain the types of Diarrhoea.

(10)

Define Constipation. Explain the types of Constipation.

Q-4 Give a day's diet plan for a patient suffering from infective hepatitis.

(10)

What are the symptoms of Liver Cirrhosis? State the principal involved in planning diet for patient's suffering from cirrhosis of the liver.

Q-5 Explain the dietary modification for the treatment of Glomerulonephritis

(10)

Differentiate between Glomerulonephritis & Nephrotic Syndrome

Q-6 What is Acute Renal failure. Explain the cause of Acute Renal failure.

(10)

What is Dialysis? Discuss diet control in Dialysis.

Q-7 What is Cancer? Explain the risk factor for Cancer.

(10)

What metabolic changes occur during cancer? Discuss the various therapies given for cancer?

	-CT. Post GradualCT. NutritionalCT. NutritionalALLOWED. 3 Hours
	1 3 to 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
fallowing:	CT. Post Greenion Operation (Man
B Write a short note on any Two of the following: -	Control log
Write a short note.	
Lactose Intolerance.     Composition of WHO oral rehydration Salt solution     Sparrhoea	
2) Composition of the compositio	
3) Cause of Diarrhoea	- 0
4) Types of Constipation	
5) Celiac disease	(5x2=10)
-9 Explain any five of the following in 2-3 sentences:-	
-9 Explain any five of the formal	
1) Cholecystitis	
2) Mal absorption syndrome	the reason for it.
<ul> <li>Two functions of the liver</li> <li>List two foods to be avoided in Peptic Ulcer Patient's diet and gire</li> </ul>	ve the reason to
4) List two foods to be avoided in top of	
E) Gastritis	
6) Nutritional management in hiatus hernia.	
7) Crohn's disease	(10x1= 10)
and the blanks:	a due to necrosis.
2-10 Fill in the blanks:-  1is a condition in which there is the destruction of the human both states and the human both states are set in the set of the human both states and the human both states are set of the human both	of the liver cell due to me
is a condition in which there is the destruction of the human book.  The	dy that constitutes about 200
Z. Ineisht	the answhere in the hody.
body weight.  3 can be defined as the uncontrolled growth of a	bnormal cells anywhere in the 2007
Damage to liver cells leads to an increase in bilirubin resulting in the state of the kidney.	in
the functional limit of the kidney.	
5 are the land	
. 1. 1. of dialycic are	
6. Two basic kinds of dialysis are	to the state of th
6. Two basic kinds of dialysis are	or as painful or difficult defecation.
Two basic kinds of dialysis are      The full form of GERD is	s or as painful or difficult defecation. s kidney failure usually more than 90 %
6. Two basic kinds of dialysis are	s or as painful or difficult defecation. s kidney failure usually more than 90 %

E: DHFS-22

ROLL No.....

### FOOD CRAFT INSTITUTE, AMU CAMPUS ALIGARH ACADEMIC YEAR 2021-22

Post Graduate Diploma in Dietetics & Hospital Food Service

ECT: Nutritional Perspective in Community-II

Semester/Term: IInd Semester/End Term

[10]

E ALLOWED : 3 Hours

symptoms associated with PEM.

MAX, MARKS: 100

	E ALLOWED : O Hours	MAX. MARKS: 100	
	(Marks allotted to each question	are given in brackets)	
1.	Describe iron deficiency anaemia and its treatment . Bri Control Programme.	efly explain about National Nutritional Ana	emia [10]
2.	Write short notes on (any two) a) Vitamin D deficiency b) Malnutrition		[2X5]
	c) Iodine deficiency		
3.	Discuss various strategies for combating public nutrition OR	problems.	[10]
	What are different types of nutrition communication m	ethods? Explain briefly.	[10]
4.	Explain any two of the following  a) Food fortification  b) Nutritional education		[2X5]
	c) Immunization		
5.	Differentiate between food allergy and food intolerance allergies.	. Discuss various procedure to detect food	[10]
	OR		
	Explain different types of allergies. Briefly describe the sallergies.	ymptoms and risk factors associated with	[10]
6.	Define inborn errors of metabolism. Discuss one disorder	er each of carbohydrate and protein metab	olism. [10]
7.	Explain how biochemical assessments are used to asses and disadvantages.	s nutritional status? Discuss with its advant	ages [10]
	OR  What are the different strategies, guidelines, plan and a	assessment of training programme?	[10]
8.	Explain the difference between nutritional screening an		[10]
9.	What do you understand by protein energy malnutritio	n? Discuss the biochemical changes and clin	nical

		in the blanks  Wable syrup undustry Manageme  Table of hole  We hole  Who is a medical edilowing.  Who is a medical edilowing.  Who is a medical edilowing.  Who is a medical edilowing.
10.	Fill	in the blanks
	ì.	in the blanks  Maple syrup urine disease is a
	ii.	ls a medical equipment used for measuring human height.
	iii.	RDA of iodine recommended for an adult women is
	iv.	Person allergic tohave elevated serum IgE levels.
	٧.	Oral allorm rundrama la accesad be
	vi.	Interfere with activity of the service to an advantage
		of iodine.
	vii.	a form of a contact allergic reaction that occurs upon contact all
		The state of Acketables
	viii,	be made.
	ix.	The physiological response to the bodyle and to
	х.	The physiological response to the body's need for food is
		XXX

HFS-24

ROLL No.....

## FOOD CRAFT INSTITUTE, AMU CAMPUS ALIGARH ACADEMIC YEAR 2021-22

Post Graduate Diploma in Dietetics & Hospital Food Service

cr: Sports Nutrition

Semester/Term: IInd Semester/End Term

ALLOWED : 3 Hours

MAX. MARKS: 100

## (Marks allotted to each question are given in brackets)

Q.1. Define sports science. Explain the role and involvement of different disciplines in sports science? (10)

#### OR

What are acute responses and chronic Adaptation to exercise?

Q.2. Describe the effect of exercise on the respiratory system OR cardiovascular system? (10)

OR

Give a brief account of the skill-related components of physical fitness?

Q.3. Discuss the physiological measurement during training?

(10)

OR

Describe various types of exercises with examples?

Q.4. Explain the importance of nutrition during exercise.

(10)

OR

Discuss the most common causes of sports injuries and discuss any Five most common sports injuries?

Q.5. Explain how dehydration affects sports performance during sports events?

(10)

Q.6. Differentiate between functional food and nutraceuticals?

(10)

(5x2=10)

Q.7. Explain the following terms.

c) Ball and socket joint

a) Food Pyramidd) Sweat composition

b) R.I.C.E Protocol e) M.E.A.T Protocol

Q.8. Write a short note on any two of the following

(2x5=10)

a) Ligaments Vs Tendon

b) Colle's Fracture

c) First Aid Box

Q.9 Explain in brief any two of the following:

(2x5=10)

a) 3 R'S of Recovery

b) Principles of Training

c) Composition of WHO recommended ORS.

Q.10 Fill in the blanks.

)Hamstring injuries occur inpart of the numan body
2) is a fibrous connective tissue that connects bone to bone.
3) Total types of joints are present in the human body
1) The national sports Day in India is celebrated on
5)The World Health Day is celebrated on
of the presence of sodium in the blood is called
7) The father of sports Medicine is
s) Cardiac output = stroke volume x
5)Patellar Tendinitis is also known as
10) Ankles, knees, and are most vulnerable to sprains.

Q1. Duling Ellings of the state of the state