Time: 3 Hours]

### **NUTRITION (SEMESTER - 6)**

### CS/HM/SEM-6/BHM-604C/09

1.	Signature of Invigilator			(		Jie Lê	ch ch			<b>,</b>	F
2.	Signature of the Officer-in-Charge										
	Roll No. of the Candidate										
	CS/HM/S ENGINEERING & MANAGE				J	 J <b>NE</b>	 > - 2	200	-	. — —	 

**NUTRITION (SEMESTER - 6)** 

[Full Marks: 70

### **INSTRUCTIONS TO THE CANDIDATES:**

- 1. This Booklet is a Question-cum-Answer Booklet. The Booklet consists of **32 pages**. The questions of this concerned subject commence from Page No. 3.
- 2. a) In **Group A**, Questions are of Multiple Choice type. You have to write the correct choice in the box provided **against each question.** 
  - b) For **Groups B** & **C** you have to answer the questions in the space provided marked 'Answer Sheet'. Questions of **Group B** are Short answer type. Questions of **Group C** are Long answer type. Write on both sides of the paper.
- 3. **Fill in your Roll No. in the box** provided as in your Admit Card before answering the questions.
- 4. Read the instructions given inside carefully before answering.
- 5. You should not forget to write the corresponding question numbers while answering.
- 6. Do not write your name or put any special mark in the booklet that may disclose your identity, which will render you liable to disqualification. Any candidate found copying will be subject to Disciplinary Action under the relevant rules.
- 7. Use of Mobile Phone and Programmable Calculator is totally prohibited in the examination hall.
- 8. You should return the booklet to the invigilator at the end of the examination and should not take any page of this booklet with you outside the examination hall, **which will lead to disqualification**.
- 9. Rough work, if necessary is to be done in this booklet only and cross it through.

### No additional sheets are to be used and no loose paper will be provided

## FOR OFFICE USE / EVALUATION ONLY Marks Obtained Group - A Group - B Group - C Question Total

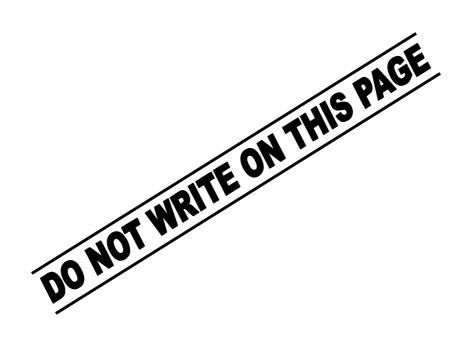
Question Number								Total Marks	Examiner's Signature
Marks Obtained									

Head	-Examir	ier/Co-Oi	dinator/	Scrutineer

6808 (11/06)









# ENGINEERING & MANAGEMENT EXAMINATIONS, JUNE - 2009 NUTRITION SEMESTER - 6

Time: 3 Hours]

Full Marks : 70

### **GROUP - A**

### ( Multiple Choice Type Questions )

1.	Choo	ose the	:	10 × 1 = 10		
	i)		odern nutrition.			
		a)	William Stark	b)	Lavoisier	
		c)	Funk	d)	Hopkins.	
	ii)	Hun	nan physiology does not demand	of the following?		
		a)	Proper diet	b)	Nutritious food	
		c)	Exercise	d)	Cellulose.	
	iii)	The	first recommendations for energ	gy and	protein requirements were	made in the
		year				
		a)	1826	b)	1926	
		c)	1836	d)	1936.	
	iv)	A gro	oup of organic molecules whose	carboı	n compounds is extensively	hydrated is
		a)	fatty acids	b)	alcohols	
		c)	carbohydrates	d)	none of these.	
	v)	The	most common manifestation of	carboh	ydrate malabsorption is	
		a)	fructose intolerance	b)	glucose intolerance	
		c)	maltose intolerance	d)	lactose intolerance.	



vi)	The enzyme lipase in human gut which is responsible for fat digestion secreted by											
	a)	stomach										
	b)	pancreas		Sissin								
	c)	both stomach and pancreas		An Among Chi Karayanda Sani Expellent	_							
	d)	both stomach and gall-bladde	r.									
vii)	Mos	Most abundant intracellular mineral is										
	a)	potassium	b)	sodium								
	c)	calcium	d)	iron.								
viii)	Water acts as a medium and solvent, a lubricant, temperature regulator and source of											
	a)	nutrients	b)	Vitamins								
	c)	minerals	d)	Vitamins & minerals.								
ix)	The	response to protein calorie ther	apy is	shown in								
	a)	Marasmus	b)	Kwashiorkor								
	c)	PEM	d)	VAD.	]							
x)		odermatitis enteropathica is a g orb adequate	genetic	disease which leads to an inability to	)							
	a)	iron from diet	b)	zinc from diet								
	c)	calcium from diet	d)	sodium from diet.								
GROUP – B												
		( Short Answer T	уре О	uestions)								
Write short notes on any <i>three</i> of the following. $3 \times 5 = 15$												
TER	TER and TEE.											
Ther	mic e	effect of food.										
Role of Vitamin $D$ in calcium absorption.												

2.

3.

4.



- 5. Malnutrition.
- 6. Importance of dietary fibre.
- 7. Mid-day meal programme.



### GROUP - C

### (Long Answer Type Questions)

Answer any *three* of the following questions.

 $3\times15=45$ 

- 8. Define 'nutrition' and 'health'. What constitutes good health? What are the nutritional components of the foods we consume? 4+6+5
- 9. List the major determinants of nutrient requirements. What is meant by RDA? How can we calculate it? What are the goals behind estimating RDAs? 6 + 2 + 3 + 4
- 10. Define and classify carbohydrate. List some important functions of carbohydrate. Explain the mechanism of absorption of monosaccharide from the gastrointestinal tract. 6+4+5
- 11. What do you mean by visible and non-visible fats? Classify lipids, giving examples. Enumerate the functions of EFAs in our body. 4 + 6 + 5
- 12. Write in brief the importance of different National Nutritional Programmes to combat malnutrition and ill-health.

END