

Second Semester Examination-2018**M.Sc. NUTRITION & DIETETICS**

Paper Code: NUD-201

Full Marks: 40

Time: 2 Hours

Write the answer for each unit in separate sheet**Unit-13****(Nutrition through life cycle)**

Answer question no.1 & any 3 from the rest

1. Answer any five questions from the following: 1×5=5

- a. At birth the hemoglobin level of normal healthy infant is –
- | | |
|------------------|-------------------|
| i) 10-12g/100ml | iii) 17-20g/100ml |
| ii) 13-16g/100ml | iv) 20-22g/100ml |
- b. High omega -3 fatty acid consumption in adults results –
- Decrease productions in Interleukin -1 & TNF
 - Increase production in Interleukin -1 & TNF
 - Increased inflammatory response.
 - Decrease cell membrane content of DHA & EPA.
- c. Gastrointestinal changes noted in aged individual–
- Increases HCl secretion
 - Decreases HCl secretion
 - Increases protein absorption
 - Decreases bacterial folate synthesis
- d. According to RDA, Protein requirement of lactating women for first six months is –
- | | | | |
|------------|-------------|--------------|--------------|
| i) 77g/day | ii) 80g/day | iii) 65g/day | iv) 68g/day. |
|------------|-------------|--------------|--------------|
- e. Calcium requirement for pregnant woman is –
- | | | | |
|-------------|-------------|---------------|--------------|
| i) 600 mg/d | ii) 800mg/d | iii) 1000mg/d | iv) 1200mg/d |
|-------------|-------------|---------------|--------------|
- f. How much β -carotene is necessary for adults?
- | | | | |
|-------------------|--------------------|---------------------|--------------------|
| i) 3200 μ g/d | ii) 4800 μ g/d | iii) 6400 μ g/d | iv) 7600 μ g/d |
|-------------------|--------------------|---------------------|--------------------|
- g. Breast milk is rich sources of
- | | | | |
|------------|----------|------------|-----------------------|
| i) Calcium | ii) Iron | iii) Vit-C | iv) β -carotene |
|------------|----------|------------|-----------------------|
- h. Weaning is started at the age of –
- 3rd month of infant
 - 6th month of infant
 - 9th month of infant
 - 12th month of infant

(Turn Over)

- 2.a)** Why is excess amount of protein essential during pregnancy? **2+1+2=5**
- b) Define PIH.
- c) Why is colostrum considered as first immunization to infants?
- 3.a)** Discuss about the role of estrogen and prolactin for regulation of lactation. **3+1+1 =5**
- b) What is galactagogue?
- c) Write the amount of energy and calcium requirement during lactation.
- 4.a)** What are the risk factors for fetal growth restriction? **2+2+1=5**
- b) Why is weaning essential at second half of infancy?
- c) What is IUGR?
- 5.a)** Write the full form of UNICEF and CSIR. **1+2+2=5**
- b) State the role of UNICEF on community nutrition up gradation.
- c) Write the feeding pattern of a premature infant.
- 6.a)** How does dietary fibre reduces blood cholesterol level in adults? **2+2+1=5**
- b) Write the role of functional foods on detoxification.
- c) Define functional foods.
- 7.a)** Why are old age people most prone to osteoporosis? **2+2+1=5**
- b) Why is antioxidant containing food stuff should be included in preparing diet chart of old age people?
- c) Write the composition of RUTF.

- 2.a) Write the difference between fetus and embryo. **1+4=5**
b) State the process of unipotential embryo from bipotential embryo in brief.
- 3.a) Describe in brief the cognitive development in children. **4+1=5**
b) What do you mean by 'Dietaet' stage.
- 4.a) State the 'ON-OFF' process of oogenesis in brief. **4+1=5**
b) Write the normal birth weight of Indian baby.
- 5.a) What do you mean by body composition? **2+3=5**
b) Write the changes in body composition noted at puberty of female.
- 6.a) Define Development
b) Write major milestones of 'Development' during infertile life. **1+4=5**
- 7.a) Write major determinants of growth.
b) Sate basic difference between growth and development **3+2=5**
