Name:	WUPES
Enrolment No:	UNIVERSITY OF TOMORR

UPES

End Semester Examination, December 2024

Course: Nutrition Through the Lifecycle

Program: Integrated BSc MSc Nutrition and Dietetics
Course Code: HSND3011P

Semester: V

Duration: 3 Hours

Max. Marks: 100

Instructions: Read all the questions carefully.

S. No.	Section A	Marks	COs
	Short answer questions/ MCQ/T&F		
	(20Qx1.5M= 30 Marks)		
Q 1	Define growth monitoring.	1.5	CO1
Q 2	What is small for gestational age?	1.5	CO2
Q 3	What do you understand by postpartum depression?	1.5	CO2
Q 4	After implantation, the develops and begins to provide	1.5	CO1
	nourishment to the developing embryo.		
Q 5	What physiological changes occur in blood volume and hemoglobin levels	1.5	CO2
	during pregnancy?		
Q 6	Increased protein is necessary in pregnancy for	1.5	CO3
	a. preventing gestational diabetes		
	b. sparing carbohydrates for energy needs		
	c. growing maternal tissues		
	d. preventing pre-eclampsia		
	e. all of the above		
Q 7	With the increase in length of infants, the proportion of changes	1.5	CO1
	with the length of body.		
Q 8	Water is particularly crucial for infants because they have	1.5	CO3
	a. less body surface area per pound of body weight than adults		
	b. a slow metabolic rate		
	c. very efficient kidneys		
	d. proportionately more body water than adults		
Q 9	State in one line the impact of high protein intake on kidney function in	1.5	CO3
Q 10	infants. What is the role of placenta?	1.5	CO1
	-		
Q 11	What is Apgar scale?	1.5	CO1
Q 12	What do you understand by milestones?	1.5	CO1
Q 13	To maintain desirable iron status, breastfed infants after 6 months should	1.5	CO3
	receive iron supplementation. State whether the statement is true or false and		
	provide reason for the answer.		
	a. true b. false		

Q 14	Children are likely experiencing growth stunting if their	1.5	CO3
	a. length-for-age falls below the 5th percentile.		
	b. BMI-for-age falls below the 25th percentile.		
	c. weight-for-length rises above the 75th percentile.		
	d. head circumference-for-age exceeds the 95th percentile.		
Q 15	How does distorted body image lead to the development of eating disorders	1.5	CO3
	in teenagers?		
Q 16	Differentiate between growth and development.	1.5	CO1
Q 17	Define hyperemesis gravidarium.	1.5	CO3
Q 18	Differentiate between cephalocaudal and proximodistal patterns of	1.5	CO1
	development.		
Q 19	What is the effect of protein deficiency on prenatal development in the first trimester?	1.5	CO2
Q 20	A baby is born prematurely at 32 weeks of gestation. At the baby's 6-month	1.5	CO4
	post-birth checkup, the healthcare provider wants to calculate the baby's		
	gestation-adjusted age to assess developmental milestones.		
	Calculate the baby's gestation-adjusted age with step-wise calculation.		
	Section B		
	(4Qx5M=20 Marks)		
Q 1	What is preconception care? Discuss the importance of preconception	5	CO1
	nutrition using the concept of DoHAD.		
Q 2	What are teratogens? What are some of the main hazards to prenatal	5	CO3
	development?		
Q 3	A 30-year-old woman in her early pregnancy, asks for guidance on which	5	CO4
	nutrients are most important for foetal cell development and growth.		
	a. As a healthcare provider, how would you advise this woman on the		
	key nutrients required for proper foetal growth and development?		
	(2.5 marks)		
	b. How would you explain the significance of adequate folate intake		
	before and during pregnancy? (2.5 marks)		
Q 4	Why is breastfeeding considered significantly more beneficial than bottle	5	CO3
	feeding for infants?		
	Section C	1	1
	(2Qx15M=30 Marks)		
Q 1	a. What physiological changes occur during menarche and how do they	15	CO3
	contribute to the development of secondary sexual characteristics in		
	females? (7.5 marks)		
	b. Why is weaning important, and what nutritional considerations should be		
	kept in mind while planning complementary feeding for infants? (7.5		
	marks)		
Q 2	Mrs. Verma is a 72-year-old retired school teacher who has been	15	CO4
	experiencing fatigue, joint pain, and occasional digestive discomfort. She		

	man outs that she feels weeken then she yeard to has lost some myssels mass	Τ	
	reports that she feels weaker than she used to, has lost some muscle mass,		
	and has noticed an increase in body fat despite no significant change in her		
	diet. She also experiences frequent urination at night and finds it harder to		
	climb stairs due to breathlessness.		
	a. Why does Mrs. Verma experience a loss of muscle mass and an increase		
	in body fat as she ages? How can this impact her overall health? (3 marks)		
	b. What age-related changes in the digestive system might contribute to		
	Mrs. Verma's slower motility and occasional digestive discomfort? (3 marks)		
	c. How does aging affect kidney filtration efficiency? (3 marks)		
	d. What physiological changes in the skeletal system are responsible for		
	Mrs. Verma's reduced bone density and joint degeneration? (3 marks)		
	e. How do reduced cardiac output and lung capacity contribute to Mrs.		
	Verma's difficulty climbing stairs and breathlessness? (3 marks)		
	Section D	'	
	(2Qx10M=20 Marks)		
Q 1	Illustrate the course of prenatal development.	10	CO2
Q 2	a. Discuss using a clear diagram, how the embryo receives its nutrition	10	CO3
	from the mother's body. (5 marks)		
	b. Discuss the three main stages of birth. (5 marks)		