PUBLIC NUTRITION AND HEALTH

STUDY NOTES

- Malnutrition is cause of 50% deaths of children under five years of age.
- · Almost one third of infant bond in India are low birth weight babies.
- Maximum number of children is suffering from micronutrient deficiencies such as iron, zinc, Vitamin A, iodine and folic acid.
- India faces the problem of under nutrition due to altered dietary pattern and lifestyle.
- In today's time food choices have become less healthy as people are obtained more processed food, fast foods and western types of food.
- India is facing double burden of malnutrition. Malnutrition is the problem of bad nutrition.
- Dietary pattern and lifestyle of people are affecting their nutrition level.
- Community is a group of people who share common characteristics like common lifestyle or same health problem.
- Food choices have become less healthy, more processed food, fast foods, snacks, and western type of foods comprises more sugar, fat, salt and less no of nutrients and fibre.
- Malnutrition is coexistence of undernutrition and overnutrition.
- Public health nutrition is the field of study for good health by preventing nutrition related problems.
- Public nutrition deals with the nutritional, biological, behavioral, social and managerial sciences.
- Public nutritionist plan strategies and implement it for the good health of the public.
- Nutritional problems in India: PEM (Protein Energy Malnutrition).
- A balanced diet is one which contain different types of body group in adequate quantity and in right proportion so as to meet the nutritional requirements of our body.
- Stunting refers to the situation when height is less than adequate for age.
- Wasting refers to incorrect weight related to height.
- Most common nutritional disorder is iron deficiency anaemia. Iron deficiency anaemia occurs when hemoglobin production is reduced as low level of hemoglobin in the blood.
- Vitamin A is important for healthy epithelium, normal vision and growth. Vitamin a deficiency is common cause of childhood blindness.
- Iodine deficiency disorder occur due to intake of iodine. Iodine is required for mental and physical growth and development of a person.
- Government of India launched several program to combat nutritional problem in India.
- ICDS is outreach program for early childhood care and development.
- Integrated child development services cover all vulnerable children of 0 to 6 year and pregnant and lactating mother.
- Nutrient deficiency control program, national prophylaxis program for prevention of blindness, National anaemia control programme, national iodine deficiency disorder.

- Mid-day Meal Programme for food supplementation and reduction in dropout rates from schools
- Food security program such as public distribution system, Annapurna scheme etc.
- Health is human right and government responsibility is to provide proper healthcare to the citizen.
- In India healthcare is provided at three different level first is primary second is secondary and third one is tertiary.
- Primary health centres is the first level of contact with the individual. Secondary level consist of hospitals and community health centres which deals with complex health problems, and tertiary is the third and highest level of healthcare which are regional hospitals and specialized hospitals.
- Nutrition is necessary as per the individual requirement. Balance diet play an important role to accomplish the needs of nutrient as per the body.

QUESTION BANK **MULTIPLE CHOICE QUESTIONS** 1. What is the cause of 50% of deaths of children under five years of age? (c) Poverty (d) Low birth weight (a) Over nutrition (b) Malnutrition 2. Low birth weight babies refer to (a) Weigh less than 2500 g or 2.5 kg (b) Weight less than 3500 g or 3.5 kg (c) Weight less than 1000 g or 1 kg (d) Weight less than 2000 g or 2 kg 3. Assertion (A): There is widespread prevalence of growth retardation among pre-schoolers. Reason (R): Almost half the children suffer from mild and moderate undernutrition. (a) Both A and R are true and R is the correct explanation of A. (b) Both A and R are true and R is not the correct explanation of A. (c) A is true but R is false. (d) A is false but R is true. 4. Examples of micronutrients are (b) Zinc, iron, vitamin A (a) Iron, protein, B₁₂ (c) Vitamin A, folic acid, carbohydrates (d) Folic acid, protein, B₁₂ 5. Choose correct statement: Statement I: If nutritional problems are not controlled on time they affect our physical growth. Statement II: Nutritional problems also affect mental and cognitive development of human. (b) Only I (a) Both statements are correct (d) Neither I nor II (c) Only II 6. Non-communicable disease (a) Hypertension (b) Smallpox (d) Malaria (c) Tuberculosis 7. India face "Double burden of malnutrition" refers to (a) Good and bad nutrition (b) Healthy and unhealthy nutrition (c) Undernutrition and overnutrition (d) Carbohydrates and proteins 8. Which is the field of study concerned with good health through prevention of nutrition related illness and problems in the population? (a) Nutritional science (b) Public health nutrition

(d) Physical health

(b) Biological, Nutritional, Cognitive, Social

(d) Nutritional, Biological, Behavioural, Social

(c) Clinical nutrition

and managerial science.

Public nutrition is a special body of knowledge derived from _

(a) Nutritional, Biological, Human, Social(c) Nutritional, Natural, Biological, Cognitive

10.	Specific group of people wh (a) Community	o share common charac (b) Group		cs refers to Individual	(d) Organisation						
11.	Full form of PEM is (a) Protein Energy Malnutri (c) Physical Energy Malnutri		` '	Protein Efficient Mixt Physical Efficient Mix							
12.	Stunting is said to be present (a) Height is more than age (c) Weight is more than height	•		Height is less than ad Weight is less than ad							
13.	Wasting refers to the situation (a) Weight is not adequate to (c) Height is less than adequate to the situation (c).	o height.	` '	Weight is more than height.Weight is less than adequate for age.							
14.	Anthropometric measurement (a) Weight (c) Head chest circumference			Height All of these							
15.	PEM assessed by evaluating (a) Protein intake (c) Anthropometric measure.			Physical Health None of these							
16.	Undernutrition due to deficie (a) Kwashiorkor	ncy of food and energy (b) Stunting		med as Marasmus	(d) Micronutrients						
17.	Kwashiorkor is caused by (a) Deficiency of food and p (c) Malnutrition	protein		Deficiency of energy Vitamin A							
18.	Hidden hunger is used to refe (a) Macro-nutrients deficience (c) Malnutrition			Micro-nutrients deficie Communicable disease	*						
19.	Which of the following is no (a) Quantity and quality of r (b) Political, cultural, religio (c) Lack of knowledge abou (d) None of these	resources are not appropus, economic and social	riate.		¥.						
20.	The acronym IDA refers to (a) Iron deficiency anaemia (c) Iron deficient amount			Iron deficiency accurate Iron decrease amount	te						
21.	When haemoglobin productio (a) PEM	n is less which results i (b) IDA		level of haemoglobin Goitre	in blood is the problem of (d) Thyroid						
22.	Deficiency of vitamin A leads (a) Weak epithelium (c) Poor growth and immuni			Night blindness All of these							
23.	The term IDD refers to (a) Iron deficiency disorder (c) Iodine deficiency disorde	r		Iodine deficiency decreas							
	Deficiency of iodine results in (a) Insufficient amount of the (c) Night blindness			Scurvy Beri beri							

25.	Enlarged thyroid is known (a) Anaemia	as (b) Goitre	(c)	Malnourished	(d) Kwashiorkor						
26.	Which program is adopted (a) National Education Po (c) International Nutrition	olicy	(b)	remove the problem of National Nutrition Pol Mid-day meal							
27.	NNP deals with (a) Fortification of food (c) Control of micronutrie			Production of low cost nutritious food All of these							
28.	What is the full form of Io (a) Integrated Child Deve (c) Integrated Child Deve	CDS?	(b)	Integration of Child D Individual Community							
29.	What do you understand b (a) Increasing the content (c) Less amount of nutrie	of micronutrient		•	ntaining vitamin and mineral od to avoid loss of nutrients						
30.	Which of the following is (a) To improve the nutriti (b) To lay the foundation (c) To reduce the mortalit (d) To achieve less effecti	onal and health status of of for proper psychological, y, morbidity and dropouts	hildre physic rates	en between 0 year and o cal and social developm in the schools							
31.	MDM program comes und (a) Food Security Program (c) National Food Program	n	, ,	Food Supplementation All of the above	Program						
32.	How many levels are oper (a) 3	ated in healthcare centres? (b) 2	(c)	1	(d) 5						
33.	Conflicts health problems (a) Primary level(c) Tertiary level	are resolved at	` '	Secondary level At all the level							
34.	Which category is wrong to (a) Diet based (c) Nutrient based	to combat Public Nutrition	(b)	lem? Medicinal based strate All of these	gy						
35.	Which strategy is short ter (a) Diet based (c) Diet based	m and specifically used for	(b)	min A, iron and folic a Medicinal based strate All of these							
36.	Which of the following is (a) Community health cer (c) Regional hospital 		. ,	Public health centre Specialised hospital							
37.	All India Institute of Medi (a) Primary (c) Tertiary	cal Science (AIIMS) come	(b)	ler which level? Secondary Community							
38.	Which of the following are (a) Public Distribution Sy (c) Annapurna scheme	-	(b)	Antodaya Anna Yojana All of these	1						
39.	(a) NNP is outreach p	program for early childhoo (b) ICDS		e and development. MDM	(d) PDS						

40.	Which of the following is not Nutrient Deficiency Co. (a) National Prophylaxis Program	ontrol Program?	
	(b) National Anaemia Control Program	orom	
	(c) National Iodine Deficiency Disorder Control Pro(d) None of these	gram	
41	are at maximum risk for PEM.		
71.	(a) Children (b) Women	(c) Elderly	(d) All of these
42.	In which year the Government of India adopted the 1 (a) 1991 (b) 1992	National Nutrition Policy? (c) 1993	(d) 1994
43.	Swelling in the body is a symptom of which disease	?	
	(a) Protein deficiency Kwashiorkor	(b) Iron (d) Iodine	
	(c) Mineral	(d) Todine	
44.	What is the mission of public health nutrition? (a) To prevent undernutrition and overnutrition prob	lem of society	
	(b) To prevent undernutrition and to maintain optimi	um nutritional status	
	(c) To prevent overnutrition and maintain optimal nu	utrition status of individual	ntrition status of the nonulation
	(d) To prevent both under nutrition and overnutrition		
45.	Assertion (A): Fortification is adding the nutrient the full fill.		
	Reason (R): India developed from agro deficit to ag	ro surplus country creating	need for storage and processing
	of agriculture product. (a) Both A and R are true and R is correct explanat	ion.	
	(b) Both A and R true but R is not correct explanation		
	(c) A is true R is false.		
	(d) A is false but R is true.		
46.	ICDS is not for (a) Pregnant women (b) 0-6 age group children	en (c) Adolescent boys	(d) Lactating mother
47.	SSA refers to	a> a = a = 1 1 = A11:	
	(a) Sarva Shiksha Abhiyan(c) Sarva Shiksha Andolan	(b) Sarvy Suraksha Abhi(d) Sarva Shiksha Abhi	yan
10	Which department accepted National Nutrition Policy		
40.	(a) Labour department	(b) Ministry of Nutrition	
	(c) Women and child development department	(d) All of the above	
49.	Health care centre provided the services of	(c) Promote health	(d) All of the above
	(a) Monitor health (b) Restore health	(c) Flomoie health	(d) Thi of the above
50.	What is the full form of TPDS? (a) Targeted public distribution system	(b) Targeted private distr	ibution system
	(c) Targeted public division system	(d) Targeted public distri	
51.	ICDS provides services, except		10
	(a) Supplementary nutrition	(b) Handsome amount as	s a gift
	(c) Immunization	(d) Health checkup	
	Input Text I	Based MCQs	

Read the passage and answer the questions that follow (52 to 55).

Nutrition is an important determinant of health. Globally health scenario has been changed due to advanced and modern lifestyle. Public nutritionist is well-trained and equipped for making strategies of good health promotion and prevention.

		itionist care, ar				al scie	ence,	nutriti	onal	need in	ı dise	eases	throu	ghout	life o	cycle,	nutriti	onal a	ssessn	ient,
52.		c nutrit UNICEI		can v		in (b) O	XFAI	M		(c)	DF	ID			((d) All	l of th	ese		
53.	(a) I	h of the Determi Leads to		t the	role o	of pub	(b)	tionist? (b) Strategies for health promotion (d) Prevention from disease												
54.	Garin (a) I	na is fe DA	eling	lethai		reathle (b) II		s and	fittin	-	lide (VA		on. Id	lentify		deficie (d) VI				
55.												(b) Food supplementation program(d) National iodine control program								
Nutri lifesty Publi	tion is /le. Pu	passage an impublic nu itionist care, ar	oortant trition includ	deter ist is le nut	rminar well-t	nt of l	nealth d and	. Glob equip	ally l	nealth or mak	scena	rio ha trateg	gies of	f good	healt	th proi	motion	and :	preven	tion.
56.		c nutrit UNICEI		can v		in (b) O	XFAI	M		(c)	DF	ID			((d) Al	l of th	nese		
57.	57. Which of the following is not the role of public nut(a) Determinant of health(c) Leads to obesity										(b) Strategies for health promotion (d) Prevention from disease									
58.	(a) 1	h progr National Wage E	Prop	hylax	is Pro	gram	tion o	of blin	dness	(b)				nentati ne Cor						
									AN:	SWER	S									
Mult	iple C	hoice (ons																
	. (b)		(a)		(?)		(b)		(a)	6.			(c)		(b)		(d)	10.		
	. (a)	12.		13.			(d)		(c)	16.		17.			(b)		(d)	20.		
	. (b)	22.		23.			(a)		(b) (b)	26. 36.		27.37.	(d)		(c) (d)	29. 39.		30. 40.		
31	. (b)	32.	(a)	33.	(D)	44	(d)	• •	4171											

57. (c)

58. (a)

56. (d)

55. (a)

51. (b)

52. (d)

Input Text Based MCQs

53. (c)

54. (a)