2022

FOOD PRODUCT TECHNOLOGY-II

Full Marks: 100

Time: Three hours

The figures in the margin indicate full marks for the questions.

Answer any five questions.

a)	Describe the structure of an egg with a suitable diagram.		6
b)	Writ	1+1+1=3	
c)	Cho	1×5=5	
	i)	Biological value of <i>egg protein/egg lipid</i> is 100.	
	ii)	Avidin/Vitellin is protein present in egg white that binds with vitamin biotin making it unavailable to the body.	
	iii)	The primary phospholipid present in egg is <i>lecithin/cholesterol</i> .	
	iv)	Myoglobin/Hemoglobin is the pigment present in skeletal muscle.	
	v)	Egg white/egg yolk becomes thin as an egg ages.	
d)	Desc	cribe briefly any two preservation methods of eggs.	3+3=6
a)	What are the three types of proteins present is meat muscle?		2+2+2=6
b)	Disc	cuss the post-mortem changes in meat.	4
c)	Expl	4	
d)	Differentiate between (any three)		2×3=6
	i)	Lean meat and marbled meat	
	ii)	White meat and red meat	
	iii)	Lamb and mutton	
	iv)	Veal and beef	
		·	
a)	Desc	cribe the four artificial methods of tenderizing meat.	3+3+3+2=11
	b) c) d) a) b) d)	b) Write c) Cho i) ii) iii) iii) v) d) Desc a) Wha b) Disc c) Exp d) Diff i) iii) iii) iii)	b) Write the nutrient composition of whole egg, egg white and egg yolk c) Choose the correct answer i) Biological value of egg protein/egg lipid is 100. ii) Avidin/Vitellin is protein present in egg white that binds with vitamin biotin making it unavailable to the body. iii) The primary phospholipid present in egg is lecithin/cholesterol. iv) Myoglobin/Hemoglobin is the pigment present in skeletal muscle. v) Egg white/egg yolk becomes thin as an egg ages. d) Describe briefly any two preservation methods of eggs. a) What are the three types of proteins present is meat muscle? b) Discuss the post-mortem changes in meat. c) Explain how tenderness in meat can be achieved by ageing of meat. d) Differentiate between (any three) i) Lean meat and marbled meat ii) White meat and red meat iii) Lamb and mutton iv) Veal and beef

	b)	Writ	e short notes (any three)	3×3=9
		i)	Curing of meat	
		ii)	Refrigeration and freezing	
		iii)	Drying	
		iv)	Salt curing and pickling	
		v)	Smoking	
		vi)	Spoilage of eggs	
				2
4.	a)	Briefly explain the types of fish with some examples.		5
	b)	Writ	3	
	c)	Wha	2+2+2=6	
	d)	Disc	uss any two methods of preservation of fish.	2×3=6
5.	a)	Wha	2+6=8	
	b)	Disc	uss the three stages of a baking process.	4+4+4=12
			100	
6.	a)	Differentiate between (any four)		2×4=8
		i)	Direct heating ovens and indirect heating ovens	
		ii)	Crust and crumb	
		iii)	Maillard reaction and caramelization	
		iv)	Cold extrusion and hot extrusion	
		v)	Sponge dough and straight dough	
	b)		t is an extrusion process? Explain the principle of extrusion with a diagram. List down two notable changes in food caused by	1+5+2=8
		neat extru		
	()	Writ	2+2=4	
	c)	prod	∠⊤∠— '1	
	1			
7.	a)	Wha prod	2+1=3	
	b)	Disc	uss the benefits of regular consumptions of breakfast cereals.	4
	c)	Wha	t are snack foods? Briefly describe the three types of snack foods	2+3=5

	and give one example of each type.	
d)	Write down the names and functions of essential ingredients used in bread making.	6
e)	What is meant by lactose intolerance and gluten intolerance?	1+1=2

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