i)

iii)

Bran

Aleuron layer

		14	N TO FOOD SO	CIE	NCE - I (Paper - I) (New)
Day an	d Ďat 11.00	e : Thursday, a.m. to 01.00 p 1) All que 2) Figure	Sub. Code :	572 ory. te ful	Total Marks : 50
<i>Q1)</i> Ch	oose	correct alterna	ative from given c	hoic	es. [10]
a)	Fo	ods rich in	are call	ed a	s Body Building foods.
	i)	Fats		ii)	Carbohydrates
	iii)	Proteins		iv)	Minerals
b)	The	ii	s the principle Ric	ce P	otein.
	i)	Casein		ii)	Gluten
	iii)	Oryzenin		iv)	Prolamines
c)	_	is knov	vn as finger millet		
	i)	Rice		ii)	Ragi
	iii)	Wheat		iv)	Bajra
d)	Gerr	n is separated	from endosperm		***

ii)

iv)

Scutellum

None of above

e)) P	ulses are deficient in		
	i)	Lysine	ii)	Methionine
	iii) Threonine	iv) Thiamine
f)	m	toxic constituents in pul an.	ses ca	ause nervous disease that cripples
	i)	Trypsin	ii)	Lathyrogens
	iii)	Both	iv)	None of above
g)	So	yabeans is used to produce _		to replace meat.
	i)	TCP	, ii)	TVP
	iii)	TPV	iv)	TPW
h)	Soa	aking of Pulses reduce	oligo	osaccharide.
	i)	Raffinose	ii)	Sucrose
	iii)	Maltose	iv)	Lactose
i)	_	are called as one seeded	fruits	S.
	i)	Cereals	ii)	Pulses .
	iii)	Nuts	iv)	None of above
j)		Nut is Rich in Proteins.		
	i)	Chestnut	ii)	Cashewnut
	iii)	Groundnut	iv)	Both i & ii

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21	-	249

Q2) Answer the following (Any two)

[20]

- a) Draw & Explain structure of wheat?
- b) Explain Processing of Pulses?
- c) Define Nuts? Give an brief account of Groundnut Products?

Q3) Solve the following (Any four)

[20]

- a) State the functions of food?
- b) Describe the structure of Pulses?
- c) Explain the Role of Nuts in cookery?
- d) Comment on sources of Fats & Oils?
- e) Discuss trypsin Inhibitors?
- f) State Prevention of spoilage of fats & oils?



Total No. of Pages: 2	Total	No.	of	Pages		2
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Seat		
No.		

B.Sc. F.T.M. (Part - I) (Semester - I) Examination, April - 2018 PRINCIPLES OF FOOD PREPARATION & PRESERVATION - I (Paper - I)

			Sub. Code	: 572	80	
	and e : 1	,	Total Marks : 50			
Instructions:			 All questions are compute Figures to the right indic Draw a neat labelled dia 	y.		
Q1)	Cho	ose (correct alternative from given	n choic	es.	[10]
	a)	The	temperature for HTST past	eurizat	ion is	,,
		i)	62.8°C	ii)	71.7°C	
		iii)	80°C	iv)	78°C	
	b) Bringing the food product to room to		om ten	perature is	<u></u>	
		i)	Thawing	ii)	Freezing	
		iii)	Cooking	iv)	Preparation	
	c)		is a natural preservative.			
		i)	Sugar	ii)	Salt	
		iii)	Honey	iv)	all of above	
	d)	-	cooking method involv	es wat	er & steam.	
		i)	Moist heat	ii)	dry heat	
		iii)	Both (i) & (ii)	iv)	none of these	
	e)	Fish	is an example of	food.		
		i)	semi perishable	ii)	Non perishable	5
		iii)	perishable	iv)	None of these	

	f)		is a cryoco	nia marcii	S1 - 23(
	5	i)	Nitrogen	nic refrigerant.	
		iii)	Freon	ii)	Carbon di - oxide
	200	(2)		iv)	All of above
	g)	The	e temperature of wa	ater in boiling is	· °C.
		i)	120°C	ii)	100°C
		iii)	200°C	iv)	150°C
	. h)	-	is a dry hea	t method.	•
		i)	Roasting	ii)	Grilling
		iii)	Toasting	iv)	All of above
	i)	1,000,000	is a indirec	t method of free	
		i)	Air blast		
		iii)	Both (i) & (ii)	ii)	Fluidized bed
	i)	1009050	1 6	iv)	None of these
	j)	Anti	D - l	is responsible fo	r contamination of food.
		1)	Rodent	· ii)	Insect
	0	iii)	Microbial	iv)	Parasitic
	v on cooper				
Q_{2}			ne following (any tw		[20]
	a)	Defi	ne canning & expla	in each step.	100 H R
	b)	Enlis	t types of cold pres	ervation. Comm	ent on fluidized bed freezing.
	c)	Enlis	t dry heat methods	of cooking. Expl	ain any two in detail
					and the mactan
Q3)	Solv	e the f	following (any four)	Faor
	a)	Give	classification of fo	od on basis of fi	[20]
	b)	Com	ment of spoilage of	food by temper	ature
	c)	State	methods of food p	reservation	atti C.
	d)		a note on pasteuriz		foods
	e)	Descr	ibe factors affecting	p heat resistance	roous,
	f)	Comn	nent on Blanching.	5at resistance	*
	X.1				

Total No. of Pages :3

Seat		11
No.		

B.Sc. (Part - D (Semester - D Examination April - 2018

2500		FOOD TECHNOLOGY & MANAGEN								
Fundamentals of Food Microbiology(Paper - I)										
Hamilton Control of the Control	Sub. Code: 57283									
1274 J. 170 D. 1		e : Tuesday, 24 - 04 - 2018	Total Marks: 50							
	Time: 11.00 a.m. to 01.00 p.m. Instructions: 1) All questions are compulsory.									
		2) Figures to the right indicate full marks.3) Draw a neat labelled diagram wherever nece	550 W.							
		by branch mothed diagram wherever nece	ssary.							
Q1) Cho	oose	the correct alternative from given choices:	[10]							
i)	Pas	steuria is ashaped bacteria.								
	a)	Camma								
	b)	Pear								
	c)	Curved rod								
	d)	Ellipsoidal								
ii)	Wh	nich of the following is a flagellated bacteria?								
	a)	Strepto coccus								
	b)	Aerobacter								
	c)	Pseudomonas								
	d)	Vibrio cholerae								
iii)	Pos	is third amino acid in tetra-peptide sitive bacteria.	ide chain of Gram -							
	a)	L - lysine								
	b)	Mesodiaminopimilic acid								
	c)	L - alanine								
	d)	D - alanine								

iv)		is a prokaryotic organism.	
	a)	Yeast	
	b)	Protozoa	96
	c)	Bacteria	
	d)	Virus	
v)	The	e length of filamentous bacteria exceeds upto	
	a)	0.5 - 20 μ	
	b)	0.5 - 3.0 μm	
	c)	0.15 - 2.0 μ	
	d)	100 μ	
vi)	Wh	ich of the following is a macro - nutrient?	
	a)	Calcium	
	b)	Potassium	
	c)	Both a & b	
	d)	Cobalt	
vii)	Alc	cohol is most effective atconcentration.	
	a)	90 %	
	b)	70%	
	c)	50%	
	d)	40-60%	
viii)		are infolding of cell membrane.	
	a)	Ribosomes	
	b)	Nucleoids	
	c)	Mesosomes	
	d)	Phospholipids	

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ix)	Sal	monella typhi shows	f	lagellar arrangeme	
	a)	Peritrichous	b)	Lophotrichous	
	c)	Amphitrichous	d)	Monotrichous	
x)	Wh	o invented streak plate technic	que?	9	
	a)	Joseph lister			
	b)	Watson			
	c)	Louis Pasteur			
	d)	Robert Koch			
Ans	wer t	the following : (any 2)			[20]
a)	Wh	at do you mean by cytology o	f bacte	eria? Discuss caps	ule in detail.
b)	Def	ine sterilization. Explain steriliz n mechanism.			
c)	Dra	w and discuss cell wall of Gra	m - pc	sitive bacteria in d	etail.
Solv	⁄e the	following: (any four)			[20]
a)	Giv	e nutritional classification on	the ba	sis of carbon & en	ergy source.
5)		at are the contributions of Jos			45.5
2)		oorate on sterilization using ha			
d)		w and explain structure of flge	(37)		
		52.0			

Q2)

Q3)

e)

f)

Write a note on pilli.

000

Describe outer wall layer of Gram - negative, bacterial cell wall.

Con		-0.0		7				ST - 232
Sea No.							To	otal No. of Pages : 2
	В	.Sc.		Food	Semester - I) E Technology ar	id Ma	anagement	
			r	OOD	CHEMISTR			=
				onday, 23 o 01.00 p	Sub. Code 3 - 04 - 2018	: 5/2	82	Total Marks : 50
	uctio		1) 2) 3)	All que Figure	estions are compuls is to right indicate fo neat labeled diagra	ull mar	ks. rever necessary,	8
Q1)	Sel	ect th	e cor	rect alte	rnative from give	n cho	ices:	[10]
 a) Which of the following is not a 				lowing is not anti	oxida	nt?	C	
		i)	DH	A		ii)	Tocopherol	
		iii)	BH	A		. iv)	Lemon juice	
	b)	Glu	cose	is stored	d in animal in the	e form	of	
		i)		cogen		ii)	Pectin	
		iii)	Cel	lulose		iv)	Starch	
	c)	Wh	ich o	f the foll	lowing is not inso	luble	dietary fibre?	
		i)	Pec			ii)	Lignin	
		iii)	Cell	lulose		iv)	Hemicellulose	

Complete the structure of amino acid Alanin

$$\begin{array}{ccc}
N & O \\
I & I \\
C - C = N
\end{array}$$

i)	- CH ₃	ii)	-H			
iii)	$-CH_3 - (CH_3)_2$	iv)	-NH ₃			

Amino acids are joined together by _____ to form proteins.

i) Sulphurbond

Hydrogen bond ii) iii) Peptide bond iv) Glycosidicbond

	f)	Select the odd vitamin out.						
		i)	Retinoic acid		ii)	Thiamine		
		iii)	Riboflavin		iv)	Pyridoxine		
	g)	The state of the s						
	(27)	i)	Zein		ii)	Casein		
2		iii)	Keratin		iv)	Oryzenin		
	h)	The degree of unsaturation in fats can be measured by						
		i)	Peroxide number		ii)	Acid number		
		iii)	Iodine value		iv)	Saponification number		
	i)	refers to swelling of starch granules after cooking with water.						
		i)	Steaming		ii)	Gelatinisation		
		iii)	Retrogradation	ě	iv)	Dextrinization		
	j) Vitamin A is also called as							
		i)	Retinoic acid		' ii)	Retinal		
		iii)	Retinol		iv)	All of these		
Q2)	2) Answer the following (any 2):							
	a)	What is starch? Describe properties of starch. Write a note on classification of proteins.						
	b)							
	c)	Write a note on vitamin B complex.						
	8							
Q3)	Solv	Solve the following (any 4): [20]						
1176-1176	a)	Write a note on isomerism of carbohydrates.						
	b)	basis of chemical composition						
	c)	Exp	olain functional prop	ns.				
	d) Describe the functions of carbohydrates.							
	e)	and the companies of th						
	f) Write a note on vitamin D deficiency diseases.							
	ament terms experimentation and the account experimental							