Time:	3Hrs		Marks :
		Note: All Questions are compulsory	\$.
Q. I		Multiple Type Question (Each MCQ Carries 1 mark)	20M
	1	Which of the following contain maximum lycopene content?	1M
	a	Tomato paste	
	b	Fresh tomatoes	
	c	Tomato sauce	2
	d	Tomato juice	
	2	Grapes are considered functional foods because they contain	1M
	5	these substances;	30
	a	Proteins	
	b	Carbohydrates	(4)
A	C	Phytochemicals	15/7
3	d	None of the above	
4	3	Which of the following is the best source for omega-3 fatty	1M
9	1	acids?	S
2	a	Corn-oil S	4
	b	Wheat Products	180°
V. K.	c	Pork S	60
45,	d	Sardines	N. C.
	4	Which of the following is defined by Dr Defelice as food, or	1M
	2	parts of foods, that Provide medical or health benefits,	
	<i>S</i> .	including the prevention and treatment of disease?	
22	a	Nutraceutical	
	b	A functional food	
2	C	Pharmaceuticals	
(d	NSAID	
N. T.	5	Carotenoid can be primarily stored in	1M
2	a	Adipose tissue	
\$,	b_	Liver	
7	C	Adrenals	
.1	d	Testes	
8	6	The Directorate of food and Drug Administration,	1M
	_	Government of Goa was established in	
T	a	November 1990	
	b	November 1992	
.4	C	November 1993	
5	d	November 1991	

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7	Name of the phenolic compound present in tea?	M
a	Flavonoids	
b	Lignans	
c	stilbene	S,
d	Neolignans A A A A A A A A A A A A A A A A A A A	,
8	What are probiotics?	M
a	killed microorganism that provide health benefits	,
b	Live microorganism that provides health benefits	Ê
c	Bacterial that provides health benefits	F
d	Live microorganism that could be harmful)
9	Which of these groups of chemicals include only examples of	\mathbf{M}
	polyphenols?	(
a	Flavonoids, stilbenes and lignans	1
b	Carotenoids, Flavones and anthocyanins	5
c	Phytoestrogens, folate and ubiquinone	7
d	Qucetine, glutathione and tannins	
10	Source of free radicals are	lM
a	Mitochondria	15
b	Xanthine oxidase	7
c	Peroxisomes	
d	All of the above	
11	The most biologically active form of vitamin E is	M
a	all rac alpha tocopherol	239
b	all rac alpha tocotrienol	27
c	RRR alpha tocopherol	_
\mathbf{d}	RRR gama tocopherol	
12	Which of the following statements regarding free radicals is	\mathbf{M}
,	false?	
a	Free radicals carry a single, unpaired electron	
b	free radicals are produced as the result of homolytic cleavage of a	
BV	covalent bond	
c	A free radical can interact with a a molecule to generate a new free	
)	radical species	
d	Free radicals do not occur naturally in the body	
13	Concept of oxidative stress is occurring due to	\mathbf{M}
a	Imbalance between free radicals' production and antioxidant	
>	defence	
b	free radical generation	
c ,	Antioxidant defence only	
d &	All of the above	

14	Promote general awareness about food safety and standards is	1M
	the function of	, <
a	MFPO	3
b	FPO ST ST ST	S
c	FSSAI	H-
d	FDA ST ST ST	
15	Which of the following does not have antioxidant qualities?	1M A
a	Vitamin E	
b	Vitamin K	Y. YO.
c	Calcium A A A A A A A A A A A A A A A A A A A	S .
d	Omega 3 Fatty acids	
16	Which one of these is complex carbohydrate?	1M
a	Fiber S S S S S S S S S S S S S S S S S S S	
b	Starch A A A	20
c <	Both (a) and (b)	7 , 7
d	Sugar A A A A	
17	Which of this is not PUFA?	1M (
a	Linolenic acid	15
b	Oleic acid	
c	Linoleic acid	3.
d	Arachidonic acid	
18	Tea is a major dietary source of which one of the following	1M_
3	trace elements?	3
a	Manganese	
b (Zinc A	
c	Copper	
d	Selenium	
19	Food safety and standards act, 2006 passed by Indian	1M
	parliaments and notified on:	
a_^	23 rd July 2006	
60	23 rd June 2006	
C	23 rd August 2006	
d	23 rd November 2006	
		13.6
Δ	In 1989, Nutraceutical is a term coined by	1M
a,	Stephen	
D	Stephen L george	
7 C	Stephen L fleming	
d	None of these	2014
18	Answer any TWO of the following	20M
100	Define Public Health. Write in details about the nutraceuticals and	5M
	dietary supplements used in maternal and child nutrition.	5 N /
y <u>Z</u>	Classify Carotenoids with examples and write about their	5M
,	occurrence?	
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	Paper / Subject Code: 14232 / Dietary Supplements & Nutraceuti	cals	45
		C.E.B.T	1500
			80 COV
B 1		5M	
2		5M	
	atherosclerosis.		6
C	Explain about processing, storage and interaction of various	10M	72,
0.111	environmental factor on the potential of nutraceuticals.	2575	5
Q. III	Answer any SEVEN of the following	35M	
a	Define Nutraceuticals. Classify Nutraceuticals depending upon their characteristics and major uses.	5M	
b		5M	8 S
O	Gingko.	45.VI	
c		5M	Y
	Hypertension and stress.		6
d		5M	45
e	What is the antioxidant? Explain the biological role of endogenous	5M	S. E.
	enzymatic antioxidant.	A A	
f	Classify Flavonoids with example and about their occurrences.	5M	
g	What are the dietary fibres? Explain their importance as functional	5M	20
	foods.	70,	
h	Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y	5M	X.
	Classify Tocopherol with examples and explain their biological	5M	Y
	properties.	25	
		20	
7			
72,		Z.	
2)	
8			
72			
75			
ST ST			
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	Solver By Solver		
S. S.			
	ST S		
72 TPL			
	A, B, A, -		
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C' EX A	S. S		
ST ST			
67	Page 4 of 4 X1132Y5A6EEBX1132Y5A6EEBX1132Y5A6EEBX1132Y5A6EEB		