


Name:			
Enrolment No:			
UNIVERSITY OF PETROLEUM AND ENERGY STUDIES End Semester Examination, May 2022			
Course: Food and Nutraceuticals Program: B.Sc. Food and Nutraceutical Course Code: HSND2003		Semester: IV Time : 03 hrs. Max. Marks: 100	
Instructions:			
Q.No	Section A Short answer questions/ MCQ/T&F	(20Q x1.5M= 30 Marks)	COs
Q	Statement of question		CO
1.	What are drug interactions?		CO4
2.	What are nutraceuticals?		CO1
3.	Green Tea Extract is used as: A) Antioxidant B) Anticancer C) ROS scavenger D) All of above		CO3
4.	Lactobacillus acidophilus is an example of: A) Prebiotic B) Probiotic C) Synbiotic D) None of above		CO2
5.	What are the active component of marketed product Lipeoc and Teamax?		CO5
6.	Microcrystalline Hydroxyapatite is used for the treatment of ?		CO3
7.	Indian Food Safety Standard act came in to force in A) 2008 B) 2006 C) 2015 D) 2020		CO4
8.	What are prebiotics?		CO2
9.	What are recombinant nutraceuticals?		CO1

10.	Write two benefits of Vitamin D		CO3
11.	Give two reasons of boost in Nutraceutical market in India		CO5
12.	write two side effects of prebiotics		CO2
13.	What is role of magnesium levels in body during stress		CO3
14.	What is the effect of interaction between Vitamin K and anticoagulants		CO4
15.	Name three naturally occurring antioxidants		CO1
16.	What schedule of Food Act Schedules provides the list of Nutraceuticals		CO4
17.	What is the role of piperine when consumed with Epigallocatechin gallate		CO2
18.	When consumed how does Curcumin regulates inflammation ?		CO3
19.	What is axis in stress		CO2
20.	What is the full form of FSSAI?		CO4
	Section B	(4Qx5M=20 Marks)	CO
Q	Statement of question		
1.	Give two example of the potential benefits of any five of following: 1. Curcumin 2. Insoluble fiber 3. Saponin 4. Lignin 5. Piperin 6. Borneol	5	CO1
2.	Discuss role of Nutraceuticals in cardiovascular disease	5	CO3
3.	Give two example of any five of following: 1. Carotenoids 2. Polyphenols 3. Alkaloids 4. Mineral 5. Fatty acid 6. Anthraquinone	5	CO1
4.	Discuss Algae as function food, its examples, nutritional value and two pharmacological actions.	5	CO2

	Section C	(2Qx15M=30 Marks)	
Q	Statement of question (Case studies)		CO
1.	Explain in detail the Role of nutraceuticals in cancer. What are the promises and challenges of nutraceuticals in Cancer?	(10 +5)	CO3
2.	What is Bioavailability? What is Bioequivalence? Explain all component of Area Under the Curve (AUC) via a diagram	(2.5 + 2.5 +10)	CO4
	Section D	(2Qx10M=20 Marks)	
Q	Statement of question		CO
1.	Discuss about management of Psoriasis using nutraceuticals	10	CO3
2.	Discuss characteristics of Probiotics, its advantages, side effects and concept of Synbiotic with example.	(2+2+2+4)	CO2