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Programme Name: MSc Toxicology, Semester-II End term Examination (2023-24)

Paper Name: FOOD AND COSMETICS TOXICOLOGY; Paper Code: MTX-CC201

Time: 2.5 h

Maximum Marks: 60

Note: This paper has 3 section A, B and C, Attempt all the three sections.

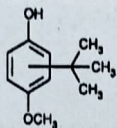
Section A: Answer all the questions; Section B: Answer any 4 out of 6; Section C: Answer all questions.

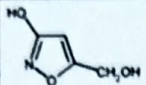
Abbreviations Used: CO-Course Outcome, PO-program Outcome, BTL-Bloom Taxonomy Level: BT level 1- Remember; BT level 2-Understand; BT level 3-Apply; BT level 4-Analyze; BT level 5- evaluate, BT level 6-Create.

SECTION A

Very short type questions. Attempt all the questions.

(Marks 1×20=20)

Q. No	Questions	BTL	CO	PO
1.	What is the type of toxicant that is transmitted to humans by eating toxic plants directly?	1	2	5
2.	A substance that prevents a vitamin from exerting its typical biological effects is known as	2	3	4
3.	 are characterized by their hemolytic activity and foaming properties and are responsible for imparting a bitter taste and astringency to plant materials.	3	5	3
4.	What is the acute lethal dose of aflatoxin for adult human?	3	4	4
5.	E Numbers", is used in Europe for all approved	4	4	6
6.	 The given molecule is mainly used as food additives due to its anti-oxidant properties. Generally, it is referred as	5	1	1
7.	Compounds such as ascorbic acid and sodium bisulfite are added to raw materials such as peaches and apples to prevent browning; these compounds are inhibitors of	2	5	3
8.	Write one most common causes of foodborne illness in India.			
9.	Define In toxification			
10.	Many countries imposed a ban on spice mixes from MDH and Everest due to contamination.	3	3	1
11.	Name of a lipophilic marine toxin.	2	1	5
12.	Name the organism which produces brevetoxin B.	3	3	4
13.	Saxitoxin is a water insoluble toxin. (True or False)	1	2	7
14.	<i>Karenia brevis</i> is associated with algal bloom. (fill in the gap with type of algal bloom)	1	1	2
15.	Amatoxin is a protoplasmic poison. (True or False)	1	3	2
16.	Write in one sentence about Phase 2 of amatoxin poisoning.	3	4	2

17.	 Identify from the above structure, the name of mushroom poison.	3	2	5
18.	Name on non IgE-mediate food allergy.	3	5	3
19.	Which food product is associated with the highest percentage of food allergies in US children?	2	4	8
20.	Define acne vulgaris type of cosmetics-induced toxicity symptoms in the skin.	2	3	5

SECTION B

Short-type Questions. Attempt any four out of six questions. (5 × 4 = 20)

Q. No.	Questions	BTL	CO	PO
1.	Discuss the different stages involved in hepatocarcinogenesis by Aflatoxin B1.	2	4	1
2.	Write short note on any two i) Goitrogens ii) Teratogens iii) Food borne bacterial illness	3	5	3
3.	Discuss the differences among Food adulterants, contaminants, and Food additives.	4	3	8
4.	Write a note on harmful algal blooms.	1	4	9
5.	Types of toxicity caused by muscarine mushroom poison.	2	3	4
6.	Write a short note on skincare products in comedone type of skin reaction.	3	2	8

SECTION C

Long answer-type Questions. Attempt all questions

(10×2=20)

Q. No.	Questions	BTL	CO	PO
1.	What are three different types of Toxicants of food? Explain in short. OR Discuss the classification and mechanism of toxicity of food additives with special reference to BHT (Butylated hydroxyl toluene) and BHA (Butylated hydroxyl anisole).	3	6	2
2.	What are the major types of toxic constituents in cosmetics products? Discuss in detail one type of toxic adverse resection caused by the application of cosmetics products. OR Describe skin structure and various types of defense systems in skin for protection of toxic chemicals and environmental factors.	2	4	8