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**M.Tech. (Food Technology) (2018 Batch) (Sem.-2)****NUTRACEUTICALS AND FUNCTIONAL FOODS****Subject Code : MTFT-527-18****M.Code : 76127****Time : 3 Hrs.****Max. Marks : 60****INSTRUCTIONS TO CANDIDATES :**

1. Attempt any FIVE questions out of EIGHT questions.
2. Each question carries TWELVE marks.

1. What are functional foods? What are some examples of functional foods? Discuss their importance and health benefits.
2. Define Nutraceuticals. Write detailed note on role of nutraceuticals for specific situations along with suitable examples.
3. Define Phytochemicals. Discuss in detail the different classes of phytochemicals and explain their role as nutraceuticals.
4. Discuss the role of cereal products as functional foods along with suitable examples and their health benefits.
5. What is the working principle of Ultrasound-assisted extraction? Discuss the application of Ultrasound-assisted extraction for the extraction of phytochemicals.
6. How phytochemicals can be useful in development of functional foods? Discuss the effect of environmental conditions on activity of bioactive compounds in food matrix.
7. What are probiotics? Discuss the features of probiotic microorganisms and write detailed note on their health benefits.
8. Discuss the marketing and regulatory issues for functional foods and nutraceuticals.

**NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.**

