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Question Paper Code: U9D72

B.E./B.Tech. DEGREE EXAMINATION, APRIL 2024

Open Elective

Civil Engineering

21UBT972- HERBAL MEDICINES

(Common to CSE,EEE, ECE, MECH, IT ,Agri, BME, CSBS & CSD Engineering branches)

(Regulations 2021)

Duration: Three hours

Maximum: 100 Marks

Answer All Questions

PART A - (10x 2 = 20 Marks)

1. Write a short note on Shilajit. CO1- U
2. How medicinal plants are classified based on its effect? CO2-Ap
3. What kind of standardization techniques you use in formulations of Herbal drugs. CO3-An
4. How a disease is diagnosed in Indian System of Medicines? CO2-Ap
5. Classify Nutraceuticals depending upon their characteristics and major uses CO1- U
- 6 Write a note on prebiotics and probiotics. CO1- U
- 7 Point out the allergic reactions of kava-kava. CO3-An
- 8 What are the effects of herb-drug interactions on various systems of a body? CO2-Ap
- 9 Highlight the Powers of the Central and State Governments under the Protection of Plant Varieties and Farmers' Rights Act 2001 CO2-Ap
- 10 Define the meaning of 'invention and 'inventive step' under Patent law. CO1 -U

PART – B (5 x 16= 80Marks)

11. (a) What is meant by organoleptic properties? How can you evaluate the properties of leaves, bark, flower, fruits using this property? CO3-An (16)

Or

- (b) Evaluate in detail about how current herbal medicine products are evolved from the ancient period. Give its significance. CO3-An (16)

12. (a) Explain in detail the Preparation and Standardization of Ayurvedic Herbal products CO2- Ap (16)

Or

(b) Outline the various dosage forms in herbal drugs. Based on the idea, mention how you would prepare various medicines with examples. CO2- Ap (16)

13. (a) Describe in detail some sources of herbal raw materials used in the field of cosmetics. CO3- Ana (16)

Or

(b) How functional food acts as nutraceutical in the prevention of diabetes? List out the nutraceutical products that you use to prevent and treat the particular disorder. CO3- Ana (16)

14. (a) Write a note on herbal drug and herb –food interaction with suitable examples. What evidence would you give to strengthen the concept of herb drug interaction? CO4- E (16)

Or

(b) What conclusion can you draw on the possible side effects in drug interactions? Strengthen your concept with the case studies on Ginseng and Ephedra. CO4- E (16)

15. (a) Describe schedule Z of drug and cosmetics act for ASU drugs CO2- Ap (16)

Or

(b) Explain in detail about ICH guidelines for the evaluation and assessment of herbal drugs. CO2- Ap (16)