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Question Paper Code:R9C72

B.E./B.Tech. DEGREE EXAMINATION, NOV 2025

Open Elective

R21UBT972- HERBAL MEDICINES

(Regulations R2021)

(Common to All Engineering branches)

Duration: Three hours

Maximum: 100 Marks

Answer ALL Questions

PART A - (10 x 2 = 20 Marks)

1. Expand and define AYUSH. CO1-U
2. How medicinal plants are classified based on its therapeutic effect? CO1-U
3. In Ayurveda, what elements are considered to be important in maintaining a Living System? CO1-U
4. How can standardization techniques be applied in the formulation of herbal drugs using *Withaniasomnifera* to ensure consistency, safety, and efficacy? CO2-App
5. What is the difference between functional foods and nutraceuticals? CO1-U
6. How can herbal products be applied to manage hair loss effectively, and what are some examples available in the market? CO2-App
7. What are the effects of herb-drug interactions on various systems of a body? CO1-U
8. How certain drugs reduce or enhance the rate of metabolism of other drugs? CO2-App
9. List down the Powers of the Central and State Governments under the Protection of Plant Varieties and Farmers' Rights Act 2001. CO1-U
10. How can you justify certain drugs as schedule Z drugs? Give example. CO2-App

PART – B (5 x 16= 80 Marks)

11. (a) Examine how traditional Indian remedies and regional folklore contribute to the development of modern medicinal practices by identifying patterns, principles, and cultural influences. CO4 - Ana (16)

Or

- (b) Examine the organoleptic properties of herbal plants and what criteria would you apply in analyzing the selection of raw material from Karpooravalli. CO4 - Ana (16)
12. (a) How the principles of Ayurvedha System of Medicine are applied in diagnosis and treatment of jaundice? CO3 - App (16)
- Or
- (b) Apply chemical and biological standardization techniques to evaluate the quality and efficacy of a given herbal drug. CO3 - App (16)
13. (a) Assuming that you are a nutritionist working in a Clinic, what kind of nutraceuticals will you prescribe for a patient affected with Irritable bowel Syndrome? CO2 - App (16)
- Or
- (b) If you are preparing an herbal formulation for preventing acne, what kind of raw materials would you recommend for glowing skin? Explain in detail. CO2 - App (16)
14. (a) Outline the stages and process of treatment using herbal medicine for a patient with mild hypertension. Include classification of herbs used, precautions during concurrent drug therapy, and how to manage food–drug interactions. CO2 - App (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. CO2 - App (16)
- 15 (a) Explain in detail about ICH guidelines for the evaluation and assessment of herbal drugs. CO1 - U (16)
- Or
- (b) Describe schedule Z of drug and cosmetics act for ASU drugs. CO1 - U (16)