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The Assam Royal Global University, Guwahati
Royal School of Pharmacy
B. Pharmacy VI Semester
Semester End Examination, June 2023
Course Title : Herbal Drug Technology
Course Code : PHR232C603

Time: 3 Hours

Maximum Marks: 75

Note: Attempt all questions as per instructions given.
The figures in the right-hand margin indicate marks.

Section – A

1. Attempt **all** questions. (Maximum word limit 50) 2.5 x 8
- a. What is herbal drug preparation? Give examples.
 - b. Write a short note on Gutika.
 - c. Mention the source, chemical constituents and nutraceutical benefits of Fenugreek.
 - d. Write a note on nutritional benefits of Alfa-alfa and Garlic.
 - e. What are natural excipients? Mention sources of any two natural protective agents.
 - f. Write about any two evaluation parameters for herbal skin care products.
 - g. What do you mean by farmer's right and breeder's right?
 - h. Define bioprospecting and IPR.

Section – B

2. Attempt **any one** of the following: 13 x 1
- a. Mention various Ayurvedic formulations. Elaborate method of preparation of Asava and its alcoholic content determination.
 - b. What is Biodynamic Agriculture? Explain role of pest and pest management in cultivation of medicinal plants.
3. Attempt **any two** of the following: 7 x 2
- a. Define and classify nutraceuticals. Explain about role of pre-biotics and pro-biotics as nutraceuticals.
 - b. What are antioxidants? Explain their mechanism of action and beneficial role on health.
 - c. What is herb-drug interaction? Describe possible side effects and interactions Hypericum.
4. Attempt **any two** of the following: 7 x 2
- a. Write a note on natural sweeteners and flavoring agents used in pharmaceutical formulations with examples.
 - b. Enumerate various NDDS. Write a note on phytosomes.
 - c. Define herbal excipients with examples and write their role in skin and hair cosmetics.
5. Attempt **any two** of the following: 7 x 2
- a. What is Biopiracy? Explain patent case study of Curcuma.
 - b. Describe WHO guidelines for quality control of Herbal drugs.
 - c. Discuss the components of GMP (Schedule T) for ASU drugs.