



DII-003-014404

Seat No. _____

M. Sc. (Botany) (Sem. IV) (CBCS) Examination

May / June – 2015

B-422 : Herbal Technology - II (Elective)

(New Course)

Faculty Code : 003

Subject Code : 014404

Time : $2\frac{1}{2}$ Hours]

[Total Marks : 70

- Q.1. Answer the following (any seven) 2 x 7 = 14
- Name the models for measuring antidiabetic activity. What is the standard used?
 - What is total ash? What does it indicate?
 - What is the difference between NIDDM and IDDM?
 - What is IC₅₀ value indicate? How it is calculated?
 - What is the difference between organized and unorganized drugs?
 - What is the difference between MIC and MBC?
 - Name some synthetic antioxidants.
 - Name different models for measuring antiulcer activity
 - What is chemical classification?
 - What is identification test for hesperidin?

- Q.2. Answer the following (any two) 2 x 7 = 14
- What is morphological classification? Describe with suitable examples
 - How alkaloids are extracted from plants?
 - What is finished product standardization?

- Q.3. Answer the following 2 x 7 = 14
- What is TFC? How they are estimated from plant extracts ?
 - What are ROS? Describe briefly any anion scavenging activity.

OR

- Q.3. Answer the following 2 x 7 = 14
- What is TPC? How they are estimated from plant extracts ?
 - Name different antimicrobial susceptibility testing methods?
Describe any one in detail

- Q.4. Answer the following 2 x 7 = 14
- Name different models for measuring acute anti-inflammatory activity and describe any one in detail.
 - Describe isolation of solanine from potato and its identification test.

Q.5. Answer the following (*any two*)

2 x 7 = 14

- a) Name four plants showing promising antioxidant activity and anti ulcer activity.
 - b) What are antioxidants? Describe briefly any cation scavenging activity.
 - c) What are tannins? Describe properties of tannins
 - d) What are secondary metabolites? Briefly describe their qualitative analysis.
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