



MBU-003-1144004 Seat No. _____

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

April / May - 2018

Botany : BOT - 422

(Herbal Technology)

Faculty Code : 003

Subject Code : 1144004

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

[Total Marks : 70

- 1** Answer the following : (Any Seven) **14**
- (a) What is FRAP ?
 - (b) What are ROS ? Name its.
 - (c) Define MIC and MBC.
 - (d) What are aglycones ?
 - (e) From which plant piperine is isolated and how ?
 - (f) Name four antifungal antibiotics.
 - (g) Name different types of kidney stones.
 - (h) Name different in vitro antioxidant assays.
 - (i) What is ulcer index ? How it is measured ?
 - (j) What is identification test for caffeine ?
- 2** Answer the following : (Any Two) **14**
- (a) Describe isolation of vinca alkaloids.
 - (b) What are tannins ? How they are classified ?
 - (c) What is morphological classification ? Describe with suitable examples.

3 Answer the following : (Compulsory Questions) **14**

- (a) Name different in vitro antioxidant assays and describe any one in detail.
- (b) Name different models to measure ulcer and describe any one in detail.

OR

3 Answer the following : (Compulsory Questions) **14**

- (a) Describe how antimicrobial activity by agar disc diffusion method is performed.
- (b) Name different models for measuring acute anti-inflammatory activity and describe any one in detail.

4 Answer the following : **14**

- (a) Describe different qualitative test generally performed in herbal technology.
- (b) Briefly describe acetic acid induced writhing test in mice.

5 Answer the following : (Any Two) **14**

- (a) Describe isolation of reserpine from Rauwolfia and its identification test.
- (b) What is chronic inflammation ? How it is measured ?
- (c) Describe briefly carrageenan induced paw edema in rats.
