

**VINAYAKA MISSION'S RESEARCH FOUNDATIONS, SALEM**  
(Deemed to be University)

**B.PHARM. DEGREE EXAMINATION – July 2019**  
Second Year

**INDUSTRIAL PHARMACOGNOSY**

Time : Three hours

Maximum: 70 marks

I. Write essays on any **TWO** questions: (2 x 15 = 30)

1. a) Define Aristas and give the principle involved in its preparation and standardisation.  
b) Brief note on production of diosgenin
2. a) Write note on enzymes and drug stability.  
b) Elaborate on Industrial production of cardiac glycosides.
3. a) Principle involved in the siddha system of medicine.  
b) Preparation and standardization of Bhasmas.

II. Write short essays on any **SIX** questions: (6 x 5 = 30)

4. Biogenesis of Atropine.
5. Nutrition requirements of plant tissue culture.
6. Mevalonic acid pathway.
7. Papain.
8. Hair care preparation.
9. Medicinal uses of hallucinogens.
10. Classification neutraceuticals.
11. Application of HPTLC in pharmacy.

III. Write short notes on any **FIVE** questions: (5 x 2 = 10)

12. Define Lehya and Gutikas
13. Write the significance of Extractive values
14. Define allergy. Give the example of allergens.
15. Source and use of Pepsin.
16. What is Hairy root culture?
17. Capillary Electrophoresis.

\*\*\*\*\*