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**B. Pharmacy (Eighth Semester) Examination,  
April-May 2017**

(New Course)

(Pharmacy Branch)

PHARMACOGNOSY - V

Time Allowed : Three hours

Maximum Marks : 70

*Note : Attempt any five questions. Each question carries equal marks.*

1. What do you mean by tissue culture? Give nutritional requirement and discuss suspension culture. 14
2. Discuss the methods used for the isolation of Alkaloids and Glycosides. 14

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3. Elaborate extraction on the basis of extraction methods and effect of solvent, solvent mixture on the crude drugs. 14
4. Write a detail note on cosmaceuticals. 14
5. Discuss the WHO guidelines for quality control of herbal drugs with reference to determination of heavy metals and extractive value. 14
6. Write short notes on the followings : 2×7  
(any two)
  - (a) Marine cardiovascular drugs
  - (b) Nutraceuticals
  - (c) Immobilization of cells and enzymes
7. Write short notes on the followings : 2×7  
(any two)
  - (a) Application of column chromatography
  - (b) Chemotaxonomy of medicinal plants
  - (c) Production of secondary metabolites