Ref. No. : Ex/PHARM/T/324/2018

B. PHARMACY THIRD YEAR SECOND SEMESTER EXAMINATION - 2018

Subject : PHARMACOGNOSY - I

Time : 03 hours

Full Marks : 100

Group A

Use Separate Answer scripts for each Group , answer any five questions, taking at least two from each group, each question carry equal marks

1. i) What is Pharmacognosy? Write the scope and utilization of crude drugs for the development of new molecules to be useful for the treatment of human ailments.
ii) Classify the crude drugs on the basis of its chemical constituents present on them. 20

2. How will you distinguish the organized and unorganized drugs?, explain with suitable examples. What is chemotaxonomy? Write the industrial production of honey? What is microscopic study of crude drugs? 20

3. Write in details about the plant (Medicinal and Aromatic) protection in the area of cultivated land. What are official, substitute and adulterant of crude drugs?, explain with suitable examples. Give general idea about the storage of crude drugs. 20

4. Write short notes on: 20

a) How will you distinguish pale catechu and black catechu? Mention the source, chemical constituents and use of pale and black catechu.
b) Mention the source, test, adulterants and use of honey.
c) Write the industrial application of tannin, give the source of tannins
d) What is biofence? Mention some natural insecticides. What are ideal insecticides?
e) How will you distinguish true tannin and pseudotannin? Mention the match stick test and gold- beater's skin test for tannins.

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B.PHARMACY THIRD YEAR SECOND SEMESTER EXAM 2018

Subject: PHARMACOGNOSY – I

Time: Three Hours GROUP - B **Full Marks: 100**

Answer any five questions taking at least two from each group

5. Write down the significance of plant tissue culture. What is the main disadvantage of callus culture? Explain the terms de-differentiation and re-differentiation with suitable explanation. Write down the method of surface sterilization of explants. How will you isolate different terpenes from volatile oils? Define isoprene rule with suitable explanation.

4 + 2 + 3 + 4 + 3 + 4 = 20

6. Write notes on
   a) Enfleurage
   b) Microscopic features of caraway (with a help of neat diagram)
   c) Growth pattern of cells in a plant cell suspension culture
   d) Synthetic seeds
   e) Schizogenous and lysigenous cativities
   f) Chemical evaluation of turmeric

3 + 5 + 3 + 3 +3 + 3= 20

7. Write down the biological sources, chemical constituents, uses of clove, lemon grass, musk, orange peel, balsam of peru, eucalyptus oil, cardamom, nutmeg.

(1 + 1+ 0.5) x 8 = 20

8. Write detailed notes on
   a) micro-propagation
   b) chemical tests for turmeric
   c) Adulterants of cinnamon
   d) Morphological and microscopic features of clove
   e) Composition of resins

5 + 3 + 3 + 6 +3 = 20