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Total Number of Pages : 01

B. Pharm  
PH.6.5

6<sup>th</sup> Semester Back Examination 2018-19

PHYTOCHEMISTRY

BRANCH : B.Pharma

Time : 3 Hours

Max Marks : 70

Q.CODE : F246

Answer Question No.1 which is compulsory and any FIVE from the rest.

The figures in the right hand margin indicate marks.

- Q1 Answer the following questions:** (2 x 10)
- a) What is Column chromatography? How it helps in the isolation of phyto constituents.
  - b) Write the structure and numbering pattern for Ouabain.
  - c) Write the stereo chemistry of Ephedrine.
  - d) What is enflourage? Which type of phytoproduct can be extracted by this method?
  - e) Write down the difference between Cardenolides and Bufadienolides with examples.
  - f) What is Shinoda test? It is used for identification of which phytoconstituents.
  - g) What happens when streptomycin is subjected to mild hydrolysis?
  - h) Write isoprene rule with examples.
  - i) What is IR Spectroscopy? How it is helpful in the structural elucidation.
  - j) How do you know the presence of  $\beta$ -ionone nucleus in vitamin A.
- Q2**
- a) Write down the different extraction methods useful for crude drug. (5)
  - b) How the different physical methods applicable for isolation of phytoconstituents from the plant extract. (5)
- Q3**
- a) What are terpenoids? Write the general method for the extraction of mono and sesquiterpene. (5)
  - b) Elucidate the structure of citral chemically. (5)
- Q4**
- a) What are cardiac glycosides with examples? (5)
  - b) Write the pharmacology and chemistry of Digitoxin. (5)
- Q5**
- a) What are alkaloids? Classify them with examples. (5)
  - b) Elucidate the structure of tropane in atropine. (5)
- Q6** Classify flavonoid with suitable examples. Elucidate the structure of Quercetin. (10)
- Q7** What are antibiotics? Write the chemistry and therapeutic use of tetracycline. (10)
- Q8 Write short notes on any TWO :** (5 x 2)
- a) Classify vitamin with example
  - b) Elucidate the structure of vitamin B<sub>1</sub> chemically.
  - c) Chemistry of vitamin C