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Total No. of Pages : 02

Max. Marks: 80



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## B.Pharma (2011 to 2016) (Sem.-5) PHARMACOGNOSY-IV Subject Code : BPHM-504 Paper ID : [D1163]

## Time: 3 Hrs.

Roll No.

- INSTRUCTION TO CANDIDATES :
  SECTION-A is COMPULSORY consisting of FIFTEEN questions carrying TWO marks each.
  - 2. SECTION-B contains FIVE questions carrying FIVE marks each and students has to attempt any FOUR questions.
  - 3. SECTION-C contains FOUR questions carrying TEN marks each and students has to attempt any THREE questions.

#### **SECTION-A**

### 1 Answer briefly :

- a) Draw structure of ergotamine and scopolamine.
- b) Give examples of two alkaloids for which *l*-tyrosine acts as a precursor.
- c) Give one example each of a steroidal and glycoalkaloid containing plant with complete biological source.
- d) Brucine and strychnine are present in which portion of nux-vomica seeds?
- e) What are quassiniods? Give one example.
- f) Explain the principle of droplet counter current chromatography.
- g) Give biological source, important chemical constituent and important uses of coca.
- h) Give chemical composition of Mayer's and Dragendorffs reagents.
- i) Give a chemical test for emetine.
- j) Write chemical constituents of areca and draw structure of arecoline.

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- k) Arrange the following techniques in decreasing order of the particle size of their stationary phase: CC, GC, HPLC, HPTLC
- 1) Give complete biological source and important uses of Indian ginseng.
- m) & are formed from the coumaryl-s-coA.
- n) Give two examples of plant bitters with their complete biological source,
- o) Discuss important uses of pepsin enzyme.

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### **SECTION-B**

- 2 Give complete biological source, important chemical constituents (with structures) and uses of catharanthus and datura.
- 3 Give biological source, preparation, identification test and uses of papain.
- 4 Explain the role of chromatography in the field of herbal drug evaluation.
- 5 Write complete source, important chemical constituents (with structures) and uses of cinchona and rauwolfia.
- 6 Give complete biological source, chemical constituents, uses, identification test and adulterants of ergot and kurchi.

# SECTION-C

- 7 Give a detailed account on plant sweeteners.
- 8 Explain the complete biosynthetic pathway for quinoline alkaloids.
- 9 Write the complete pharmacognosy of opium.
- 10 Give a detailed account (principle, stationary phases, instrumentation) on HPTLC and HPLC. Also enlist their differences.