

Roll No.

Total No. of Pages : 02

Total No. of Questions : 10

B.Pharma (2011 to 2016) (Sem.-6)

PHARMACOGNOSY-V

Subject Code : BPHM-604

Paper ID : [A2267]

Time : 3 Hrs.

Max. Marks : 80

INSTRUCTION TO CANDIDATES :

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

SECTION-A**Q1. Answer the following :**

- a) Name two important anti cancer lignans and psychoactive alkaloids.
- b) Write constitution of menthol.
- c) Why pyrrole has acidic character?
- d) Write uses of streptomycin.
- e) What happens when quinoline is treated with benzoyl chloride and alkali?
- f) Write the importance of xanthophylls.
- g) How will you detect methoxy group in alkaloids?
- h) Shinoda's test is used to detect what type of compounds? How will you perform it?
- i) Draw the structure morphine and camphene.
- j) What are isomers? How they differ from anomers?
- k) Give example and draw structure each of a monoterpene and a sesquiterpene.

- l) Explain isoprene and special isoprene rule.
- m) Give structure and uses of vincristine.
- n) Draw the structure of isomenthol and isoneomenthol.
- o) Give the basic structures of flavanone and flavonone.

SECTION-B

- Q2. Explain the Friedel-Crafts reactions of pyridine.
- Q3. Write synthesis of carvone from alpha terpeniol.
- Q4. Write a note on quassinoides.
- Q5. Write a brief note on the spectral techniques used for identification of natural products.
- Q6. Define terpenes. Give their broad classification with an example from each class.

SECTION-C

- Q7. Elucidate the structure of morphine.
- Q8. Elaborate upon the chemistry and medicinal use of alpha- and beta-carotenoids.
- Q9. Elaborate the pharmacological activities of alkaloids and flavonoids.
- Q10. Discuss the constitution of camphor.