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Total No. of Pages : 02

Total No. of Questions : 10

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

PHARMACOGNOSY-V

Subject Code : BPHM-604

M.Code : 71036

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) Draw structure of reserpine and morphine.
- (b) Name a primary glycoside of digitalis and its hydrolytic product.
- (c) Give two examples with complete biological source of atypical alkaloids.
- (d) Differentiate between terpenes and terpenoids.
- (e) Define stereoisomerism?
- (f) Give structure and uses of squalene.
- (g) What is isoprene and special isoprene rule?
- (h) Write important uses of streptomycin.
- (i) Give structure and uses of diosgenin.
- (j) Draw the basic nucleus of a flavonol and a flavanol.
- (k) Draw structure of sennoside A and B.
- (l) Why xanthophylls are important?
- (m) How will you detect presence of Flavonoids in a given plant?
- (n) Draw the structure of papaverine and also write the alkaloidal class to which it belongs.
- (o) Write constitution of menthol.



SECTION-B

- Q2. Write an informative note on quassinoides.
- Q3. Discuss the chemistry, semisynthetic derivatives and pharmacological activity of vincristine and vinblastine.
- Q4. Explain the structure of menthol.
- Q5. Hofmann exhaustive methylation is useful in structural elucidation of alkaloids. Justify.
- Q6. Write note on cardiac glycosides.

SECTION-C

- Q7. Elaborate on the pharmacological importance and development of penicillin and tetracycline. (10)
- Q8. Discuss the chemistry of citral and quinine. (10)
- Q9. Write an informative note on the spectral approaches involved in structure determination of phytochemicals. (10)
- Q10. (a) Classify terpenoids with example from each class. Also throw light on their medicinal importance. (6)
- (b) Explain the medicinal importance of carotenoids. (4)

NOTE : Disclosure of Identity by writing Mobile No. or Marking of passing request on any paper of Answer Sheet will lead to UMC against the Student.