



PBD-1612010701050600 Seat No. _____

M. P. M. (Sem. V) (CBCS) Examination

November / December - 2018

Pharmacognosy : Paper - IV

Time : 3 Hours]

[Total Marks : 80

- Instructions :** (1) Figures to the right indicate marks.
(2) Answer any three questions from each section.
(3) Question No.1 and Question No.5 are compulsory.
(4) Draw neat & clean diagrams as required.

SECTION-I

- 1** Answer any **seven** out of ten : **14**
- (1) Classify the fibres with examples.
 - (2) Define Tannins. Give its physicochemical properties.
 - (3) Define true, pseudo and proto alkaloids with examples.
 - (4) Comment on "Colchicine is neutral in nature"
 - (5) Write in brief cultivation and collection of Opium.
 - (6) Differentiate true tannins and pseudo tannins
 - (7) Write a comment on "black catechu gives match stick test positives".
 - (8) Give the B. S and chemical constituents of bael.
 - (9) Draw well labelled diagram of T. S of kurchi bark.
 - (10) Write biological source of glycol-alkaloid containing drug.
- 2** Answer the following questions :
- (1) Define alkaloids. Give its physicochemical properties. **7**
Draw flowchart of general method of isolation of Alkaloids.
 - (2) Give comparison of various species of Datura. **6**
- 3** Answer the following questions.
- (1) Write B.S, Parasitic production, chemical constituents, chemical test of ergot alkaloids. **7**
 - (2) Differentiate followings **6**
 - (a) Black pepper and Long pepper
 - (b) Green hellebore and White hellebore

- 4 Answer the following questions :
- (1) Write in detail pharmacognostic note on Indian kino tree. 7
 - (2) Give Biological source, method of preparation, uses and chemical test of Cotton and Adsorbent cotton. 6

SECTION-II

- 5 Answer any **two** out of three : 14
- (1) Write pharmacognostic note on Jesuit's bark.
 - (2) Write botanical source, chemical constituents and uses of following :
 - (i) Lobelia
 - (ii) Amla
 - (iii) Wool
 - (3) Write B.S, C.C, uses, morphology and microscopy with well labelled diagram of quinazolin alkaloidal drug.
- 6 Answer the following questions :
- (1) Enlist drug from tropane alkaloids. Give chemical test to identify it. Write in detail about non solanaceous drug. 7
 - (2) Differentiate hydrolysable tannin and non-hydrolysable tannin. Write B.S, C.C and uses of myrobalan. 6
- 7 Answer the following questions :
- (1) Enlist anticancer drugs from various class of alkaloids. Write in detail about anticancer drug from indole alkaloids. 7
 - (2) Comment on following. 6
 - (a) Camptotheca gives Mayer's test positive.
 - (b) Silk fibre gives lead acetate test positive
 - (c) Purin alkaloids are not obeying general tests of alkaloids.
- 8 Answer the following questions :
- (1) Write a short note on Belladonna and Jaborandi. 7
 - (2) Differentiate following. 6
 - (a) Rio Ipecac and Cartagena Ipecac
 - (b) Rauwolfia serpentine and Rauwolfia vomitoria