



J-1612060701040600 Seat No. _____

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

June/July - 2019

Pharmacognosy - III

Time : 3 Hours]

[Total Marks : 80

Instructions :

1. Question 1 and 5 are compulsory.
2. Answer any three questions from each section.
3. Figures to the right indicate marks.
4. Draw neat & clean diagram when required.

SECTION - I

1 Answer ANY SEVEN out of given TEN questions : **2×7=14**

1. Define oleo resin and oleo gum resin with example.
2. Write biological source for Majith and almond.
3. Discuss properties of saponin glycosides.
4. Justify comment "Dried ginger is more pungent than fresh ginger".
5. Give chemical tests for Cardiac glycosides.
6. Write biological source and use of senega.
7. Write identification test for Anthraquinone glycoside with its principle.
8. Discuss phytochemical tests for flavonoids.
9. Write biological source for any one diuretic saponin glycoside.
10. Write biological source and uses of Chakramadu.

2 Answer the following :

1. Define glycosides. Write their classification and chemistry. **7**
2. Write Pharmacognostic note on Satavari. **6**

- 3** Answer the following :
1. Define Saponin glycosides. Give the biological source, macroscopic features, chemical constituents and uses of Liquorice. **7**
 2. Write note on Ginseng. **6**
- 4** Answer the following :
1. Define and classify resins with example and discuss its properties and general isolation method. **7**
 2. Write pharmacognostic note on ginger. **6**

SECTION - II

- 5** Answer any TWO out of THREE : **7×2=14**
1. Write detail note on Senna with its leaf microscopy.
 2. Write the difference between the following : (any two)
 - (i) Indian Squill and European Squill
 - (ii) Chinese rhubarb and Rhapontic rhubarb
 - (iii) Cardenolides and Bufadienolides
 3. Write detail pharmacognostic note on Brahmi.
- 6** Answer the following :
1. Write biological source, chemical constituents and uses of following : **7**
 1. Bada Gokhru
 2. Mustard
 3. Bhilama
 2. Write biological source and chemical constituents of following : **6**
 1. Turmeric
 2. Guggul
 3. Myrrh

- 7 Answer the following :
1. Write a pharmacognostic note on Aloe. 7
 2. Write biological source, chemical constituents and uses of any two bitter glycosides. 6
- 8 Answer the following :
1. Write note on cardiotonic leaf drug. 7
 2. Discuss biological source, morphology and microscopy of Thevetia and Nerium. 6
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