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Paper Id: 

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Sub Code: BOP 364

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**B PHARM**  
**(SEM-VI) THEORY EXAMINATION 2018-19**  
**PHARMACOGNOSY -III**

*Time: 3 Hours**Total Marks: 100*

**Note:** 1. Attempt all Sections. If require any missing data; then choose suitably.  
2. Any special paper specific instruction.

**SECTION A**

**1. Attempt all question in brief** **(2X10=20)**

- a) Define the term tannins and write down its properties.
- b) Mention the powder characteristics of Liquorice.
- c) Mention the chemical test for steroids.
- d) Write down the biological source of senna.
- e) Which colour is observed when the tannin extract is treated with lead acetate?
- f) Mention the colouring agent in Saffron.
- g) Write down the uses of shatavari.
- h) Mention the difference between Brontrager and Modified Brontrager test.
- i) Write down the uses of Brahmi.
- j) Mention the adulterants in cascara bark.

**SECTION B**

**2. Attempt any three of the following** **(10X3=30)**

- a) Define alkaloid and classify chemically.
- b) Write a short note on plant bitters and sweeteners.
- c) What are the different types of extraction?
- d) Write down the pharmacognosy of aloe
- e) Write down the vernacular names, biological name, pharmacology and uses of psoralia.

**SECTION C**

**3. Attempt any one part of the following** **(10X1=10)**

- a) Write down the qualitative chemical tests for secondary metabolites.
- b) Write down the biological source, chemical nature and therapeutic uses of hesperidin and naringin.

**4. Attempt any one part of the following** **(10X1=10)**

- a) Write down the super critical fluid extraction. Explain with diagram.
- b) Write down the biological source, chemical nature and therapeutic uses of pale catechu and black catechu.

- 5. Attempt any one part of the following (10X1=10)**
- a) Write down the pharmacognosy of arjuna.
  - b) Write down the morphology of amla and shatavari.
- 6. Attempt any one part of the following (10X1=10)**
- a) Distinguish between cardenolides and bufadenolides.
  - b) Write down the pharmacognosy of thevetia.
- 7. Attempt any one part of the following (10X1=10)**
- a) Write a short note on flavanoids and its importance.
  - b) Write a short note on nagarmotha and apamarg.