

ASTU B.Ph. (Reg) 4.06.14
2nd Sem.

Total No. of printed pages = 5

PY132205

Roll No. of candidate

--	--	--	--	--	--	--	--	--	--

2014

(Even Semester)

PHARMACOLOGY - II

Full Marks-100 Pass Marks-35 Time-Three hours

The figures in the margin indicate full marks for the questions.

1. Answer the following :

I. Choose the write answer of the following :

1×5=5

(a) Ethereal oil represents

(i) Fixed oil

(ii) Oil of vitriol

(iii) Volatile oil

(iv) None of the above

(b) Principle of steam distillation is applied in

(i) Enfleurage method

(ii) Ecuelle method

(iii) Pneumatic method

(iv) None of the above

[Turn over

(c) Oleoresins is composed of resin with

- (i) Gum
- (ii) Oil and gum
- (iii) Volatile oil
- (iv) Saponin

(d) Rubber belongs to

- (i) Hemiterpene
- (ii) Sesquiterpenes
- (iii) Polyterpenes
- (iv) Tetraterpenes

(e) Proanthocyanidins is

- (i) Alkaloids
- (ii) Tannins
- (iii) Resins
- (iv) Polysaccharides

II. Fill in the blanks : 1×5=5

(a) Catechin test is applied to identify

.....

(b) Asafoetida contains resin.

- (c) Balsam possesses and/or acid.
- (d) Lehyas and Bhasmas belong to preparations.
- (e) Bitters are consumed before meal to improve

2. Answer any *ten* of the following questions :

4×10=40

- (a) Write the basic hypothesis of Ayurvedic system of medicines.
- (b) Mention the physiological effects of bitter drugs in human body. Name the chemical classes of bitters.
- (c) What is the utility of sweetening agents alternative to sucrose ? Name at least two plant sources containing sweetening agents.
- (d) Write the chemical constituents of Clove and Valerian with their medicinal uses.
- (e) Write the biological source and external characters of Lemon grass and Nutmeg.
- (f) Name the constituents of Ginger responsible for its aroma and pungency. How the pungency of Ginger can be destroyed ?

- (g) Write briefly the Hippocratic theory and Pythagorean theory of Unani system of medicine.
- (h) What are the differences between Siam benzoin and Sumatra benzoin ?
- (i) Name the constituents of Capsicum responsible for its pungency taste and red colour. How the pungency of Capsicum can be destroyed ?
- (j) What do you know about Cellular and Acellular drugs ? Explain with suitable examples.
- (k) How can you differentiate black catechu and pale catechu ?
- (l) Write the synonym, biological source and uses of Podophyllum and Colophony.

3. Answer any *five* of the following questions :

5×10=50

- (a) What do you know about condensed Tannins? How can you differentiate condensed Tannins from hydrolysable Tannins? Why pseudotannins is negative to Goldbeater skin test ? Write the industrial uses of Tannins.

3+3+2+2=10

- (b) Discuss the different methods for extraction of phyto-chemicals from crude drugs with their basic principle. 10
- (c) Discuss in detail the pharmacognostic profile of Gall. 10
- (d) Why is resin produced in living plants? What are Schizogenous and Lysochizogenous resin ducts? Enumerate the chemical composition of resin. $2+3+5=10$
- (e) Write the various products of Indian hemp. Describe the macroscopic and microscopic characters and uses of Indian hemp. $3+5+2=10$
- (f) Write the biological source, histological structures and chemical constituents of Cinnamon and Fennel. $5+5=10$
- (g) Discuss the holistic concept of drug administration in traditional systems of medicine with suitable examples. 10