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Total Number of Pages : 02

B.Pharm
15PH505

5th Semester Regular / Back Examination 2018-19

PHARMACOGNOSY-III

BRANCH : B.Pharma

Time : 3 Hours

Max Marks : 100

Q.CODE : E471

Answer Question No.1 (Part-1) which is compulsory, any EIGHT from Part-II and any TWO from Part-III.

The figures in the right hand margin indicate marks.

Part- I

Q1 Short Answer Type Questions (Answer All-10)

(2 x 10)

- a) 6-BAP is a :
 - i) Gibberalin
 - ii) Synthetic auxin
 - iii) Natural auxin
 - iv) Cytokinin
- b) *Panax notoginseng* represents :
 - i) American
 - ii) Chinese
 - iii) Korea
 - iv) Japanese variety of ginseng.
- c) What is red squill?
- d) Write down the names of two common adulterants of digitalis.
- e) Distinguish between cardenolides and bufadienolides.
- f) Define probiotics with examples.
- g) *Digitalis lutea* is commonly known as
 - i) Straw foxglove
 - ii) Woolly foxglove
 - iii) Egyptian foxglove
 - iv) Spanish foxglove
- h) What is Brontrager's test? How it differs from modified Brontrager's test.
- i) Write short note on aloe gel.
- j) Write down the botanical source of saffron.

Part- II

Q2 Focused-Short Answer Type Questions- (Answer Any Eight out of Twelve)

(6 x 8)

- a) Define the terms callus tissue and explants. Write down the significance of plant tissue culture in the field of Pharmacognosy.
- b) Write down the biological sources, preparation and uses of trypsin and papain.
- c) Write down the biological sources, chemical constituents and uses of gentian and senega.
- d) Explain Sta-Otto method of isolation of glycosides.
- e) Describe (with the help of neat sketch) the microscopic features of digitalis leaf.
- f) Write short notes on dietary supplements and health drinks.
- g) Write down the basic components of plant tissue culture medium.
- h) Define and classify plant tissue culture. What is totipotency?
- i) Schematically represent the biosynthesis of shikimic acid.
- j) Explain briefly the principle behind the radio-active tracer technique to investigate biosynthetic pathways.
- k) Describe the methods of cultivation and collection of dioscorea.
- l) Write a note on poisonous plants of India.

Part-III

Long Answer Type Questions (Answer Any Two out of Four)

- Q3** Give an account on novel medicinal agents from marine sources. **(16)**
- Q4** Explain schematically the biosynthesis of indole alkaloids, and steroidal glycosides. **(8 + 8)**
- Q5** Write down the biological sources, method of cultivation and collection, macroscopic, microscopic features, chemical constituents, uses and adulterants of Indian senna. **(16)**
- Q6** Write down the biological sources, chemical constituents and uses of sarsaparilla, quassia, cascara and psoralea. **(4 x 4)**