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Total Number of Pages: 02

B.PHARM
PH.3.7

3rd Semester Regular / Back Examination 2015-16
PHARMACOGNOSY- III
BRANCH: PHARMACY
Time: 3 Hours
Max Marks: 70
Q.CODE: T621

Answer Question No.1 which is compulsory and any five from the rest.
The figures in the right hand margin indicate marks.

- Q1** Answer the following questions: **(2 x 10)**
- a) Define secondary metabolites . What is their role in plants?
 - b) Name two plant growth regulators How do they influence the growth of plant organs?
 - c) Write the drugs under saponin glycosides. Write the biological source and uses of one such drug.
 - d) Write the names of poisonous plants in the family papaveraceae .
 - e) Write the source and uses of a proteolytic enzyme .
 - f) Write the test for identification of C-glycosides and names of drugs consisting of these glycosides.
 - g) What phytoconstituents are synthesized by Mevalonic acid pathway?.
 - h) What is meant by Totipotency ? Explain.
 - i) Write the chemical class of the drugs these belong.
i)Cascara ii) Dioscorea iii) Squill iv) Strophanthus
 - j) Name two cardiovascular drugs from marine origin and write their sources.
- Q2** a) Write on the medicinal agents from marine sources having antimicrobial and Cytotoxic activity . **(5)**
- b) What are poisonous plants? Write on the toxic constituents present in these plants. **(5)**
- Q3** a) Write the types of plant tissue culture. What are the nutritional requirements for culture of plant tissues? **(5)**
- b) Write the sources , method of preparation and uses of **(5)**
i) Papain ii) Diastase.
- Q4** Name the plant drugs having cardioactive properties with their botanical sources . Write a detailed pharmacognostic study of Digitals. **(10)**

- Q5** a) What are the different species of senna. Write the identification features of senna. (5)
b) Write the Biological sources, Morphological characters, chemical constituents of Ginseng. (5)
- Q6** a) Write the pathway to synthesize Aromatic amino acids. (5)
b) Write the pharmacognosy of Gentian in brief.. (5)
- Q7** a) Write in brief the method of extraction & isolation of glycosides. (5)
b) Write on the bio synthesis of tropane alkaloids (5)
- Q8** Write short notes on any two: (5 x 2)
a) Surface sterilization of explants in plant tissue culture.
b) Co-enzymes and their role in Biosynthesis of phyto-constituents.
c) Toxins from marine sources.
d) Determination of culture growth in plant tissue culture.

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B.PHARM
PH.3.9

3rd Semester Regular / Back Examination 2015-16

PATHOPHYSIOLOGY OF COMMON DISEASES

BRANCH: B.PHARM

Time: 3 Hours

Max Marks: 70

Q.CODE: T682

Answer Question No.1 which is compulsory and any five from the rest.

The figures in the right hand margin indicate marks.

- Q1** Answer the following questions: **(2 x 10)**
- a) Define atherosclerosis.
 - b) Mention the terms autolysis and necrosis.
 - c) Write various signs of inflammation.
 - d) What is secondary hypertension?
 - e) Differentiate between hypertrophy and hyperplasia with examples.
 - f) Define the term stable angina.
 - g) Mention the clinical features of gout.
 - h) Write various causative agents of cancer.
 - i) Define causative agents of tuberculosis.
 - j) Write various types of Sexually Transmitted Disease.
- Q2** Discuss the etiology and pathophysiology of reversible cell injury. **(2+8)**
- Q3** Write short note on
- a) Cellular events of inflammation. **(5)**
 - b) Mediators of inflammation. **(5)**
- Q4** What is congestive heart failure? Write the etiology, pathophysiology, symptoms and complications of the disease. **(2+8)**
- Q5** Discuss the etiology, pathophysiology, sign and symptoms of Rheumatoid arthritis. **(2+5+3)**
- Q6** Write short note on
- a) Depression and mania. **(5)**
 - b) Peptic ulcer. **(5)**
- Q7** Define diabetes mellitus. Write the pathophysiology, sign and symptoms of diabetes mellitus. **(2+8)**
- Q8** Give short note on the following: **(2.5 x 4)**
- a) AIDS
 - b) Anaemia
 - c) Renal failure
 - d) Jaundice