

26/05/16

Total No. of printed pages = 5

PY 132205

Roll No. of candidate

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2016

B. Pharm 2nd Semester End-Term Examination
PHARMACOGNOSY - II

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

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

1. A. Answer any *ten* of the following questions :
10×2=20
- Define the term adulterant and substitute with example.
 - What is the difference between pathological and physiological products ?
 - How does pungency of capsicum and ginger destroyed ?
 - Define the term balsam with example.
 - Why volatile oil does also named as essential oil ?
 - What is the reason for taking bitter before or during meal ?

[Turn over

- (g) Write down the chemical constituents of lemon grass oil and ginger.
- (h) Write down the biological source of capsicum and Gaultheria oil.
- (i) Indicate the utilization of phytochemical screening.
- (j) Discuss the morphology of asafoetida.
- (k) Differentiate between pale catechu and black catechu.
- (l) How do you describe the term astringent ?

B. Match the column :

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| A | B |
|---------------------|-------------------------|
| Dragendorff reagent | Cardiac glycoside |
| Ninhydrine test | Carbohydrate |
| Fehling's test | Alkaloid |
| Legal test | Amino acid |
| Borntrager test | Anthraquinone glycoside |
| Shinoda test | Tannin |
| Gelatin test | Flavonoid |
| Millon's test | Protein |

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(2)

- C. Differentiate between any *three* of the following : 3×2=6
- (a) Infusion and Tincture
- (b) Mesocarp of fennel and caraway
- (c) Siam benzion and Sumatra benzion
- (d) Eculle method and Enflurage method.

2. A. Answer any *five* of the following questions : 5×4=20

- (a) Briefly explain about super critical fluid of extraction technique.
- (b) Write down the biological source and uses of colophony and cinnamon.
- (c) Name the cells observed with specific colour under microscope by using following reagents : Iodine solution, Phloroglucinol and HCl, Sudan red III, Alcoholic picric acid.
- (d) Define and classify tannin in details.
- (e) Write down the morphology of clove bud and podophyllum root.
- (f) Briefly discuss on homeopathy system of medicine.

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B. Answer any *four* of the following questions :

4×5=20

(a) Briefly discuss on the production of Gall.
Mention the chemical constituent present
on it. 4+1=5

(b) Discuss the production of Asava, Churna
and Leha. 2+2+1=5

(c) Explain in details the entire cell content
of coriander fruit with label diagram.

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(d) Explain in details cultivation procedure
for cannabis. What are the other names
of cannabis use? 4+1=5

(e) Name the yellow colouring substance
present in turmeric. What are the other
names of Hing ? What are the chief
constituent present in sandal wood and
citronella oil? Mention the ether in-
soluble part present in jalap. Write down
the processing of musk oil.

1+1+1+1+1=5

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(4)

160(G)

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

3×10=30

(a) Write short notes on :

(i) Plant bitters and sweeteners

(ii) Mechanism of extraction of crude drugs.

(b) Discuss chemical nature of volatile oil.
Explain the general method of isolation of
volatile oil. 2+8=10

(c) Briefly discuss on percolation and continuous
extraction process with neat diagram.

3+7=10

(d) Explain in details pharmacognosy of Myrrh
and Nutmeg. 5+5=10

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(5)

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