



(University of Choice)

**MASINDE MULIRO UNIVERSITY OF
SCIENCE AND TECHNOLOGY
(MMUST)**

MAIN CAMPUS

**UNIVERSITY EXAMINATIONS
2019/2020 ACADEMIC YEAR**

THIRD YEAR SECOND SEMESTER EXAMINATIONS

**FOR THE DEGREE
OF
BACHELOR OF SCIENCE MEDICAL LABORATORY SCIENCES
MAIN EXAM**

COURSE CODE: BML 325

COURSE TITLE: PHARMACOGNOSY

DATE: 8TH DECEMEBER 2020

TIME: 8.00 -10.00AM

INSTRUCTIONS TO CANDIDATES

SECTION A: multiple choice questions (MCQs)

1. The roots of following medicinal plants are therapeutic, except :
 - a. Rauwolfia
 - b. Ipecacuanha
 - c. Turmeric
 - d. Aconite
2. Which of the following drugs does not belong to the glycoside class?
 - a. Digitalis
 - b. senna
 - c. Nux vomica
 - d. Cascara
3. Which of the following drugs does not belong to the volatile oil class:
 - a. Peppermint
 - b. Clove
 - c. Castor oil
 - d. Garlic
4. Which of the following do not have carminative property?
 - a. Dill
 - b. Mentha
 - c. Senna
 - d. Cardamom
5. All of the following drugs are used as cardiotonics except?
 - a. Digitalis
 - b. Cinchona
 - c. Squill
 - d. Stropanthus
6. Which of the following is used as an antihypertensive?
 - a. Squill
 - b. Digitalis
 - c. Rawolfia
 - d. Stropanthus
7. All of the following drugs are used central nervous depressants except?
 - a. Hyoscyamine
 - b. Belladonna
 - c. Coffee
 - d. Opium
8. Which of the following is not used as an antirheumatic drug?
 - a. Quassia
 - b. Guggul
 - c. Colchicum
 - d. aconite
9. Which of the following drugs is used as bronchodilator?
 - a. Tea
 - b. Ipecacuanha
 - c. Liquorice
 - d. Vasaka
10. Glycosides are condensation products of :
 - a. Sugar and aglycone
 - b. Sugar and Protein
 - c. Protein and aglycone
 - d. Fats and aglycone
11. Which of the following plants produces flowers of medicinal importance
 - a. Saffron

- b. Fig
 - c. Caraway
 - d. Clove
12. Which of the following has antitussive properties?
- a. Opium
 - b. Saffron
 - c. Fig
 - d. Caraway
13. Which of the following is an example of pseudoalkaloid?
- a. Caffeine
 - b. Hygrine
 - c. Arecoline
 - d. Lobeline
14. The ring structure in strychnine is:
- a. Indole
 - b. Pyrrole
 - c. Pyridine
 - d. Piperidine
15. Which is not a therapeutic use of stramonium?
- a. Anticholinergic
 - b. Mydriatic
 - c. Antiadrenergic
 - d. Control of Motion sickness
16. Which is not an example of acid resins?
- a. Benzoin
 - b. Colophony
 - c. Sandrac
 - d. Myrrh
17. Ergot powder gives blue color with :
- a. P-dimethylaminobenzaldehyde
 - b. Benzaldehyde
 - c. Cinnamaldehyde
 - d. Formaldehyde
18. Thalleoquin test is used for identification of :
- a. Atropine
 - b. Vincristine
 - c. Quinine
 - d. Strychnine
19. Which of the following is a common property of saponin glycoside:
- a. Laxative
 - b. Anticonvulsant
 - c. Foaming
 - d. Astringent
20. Rhubarb when treated with alkali shows red colour due to presence of:
- a. Anthroquinone glycoside
 - b. Cardiac glycoside
 - c. sapogenin glycoside
 - d. Cyanogenic glycoside

SECTION B: SAQs: 40 marks; answer all

1. Give five roles of pharmacognosy in the modern medicine **(5marks)**
1. Using specific examples differentiate between organized and unorganized crude drugs **(6 marks)**
2. What are the advantages of commercial production of natural products of medicinal importance **(5marks)**
3. What is the optimal time to harvest to the following medicinal plant parts: **(5marks)**
 - a. Roots and Rhizomes
 - b. Bark
 - c. Aerial parts
 - d. Flowers
 - e. Gums/Resins
4. Give **five** crude drugs acting on the respiratory system and their medicinal used **(5marks)**
5. With specific examples describe sophistication as one form of common deliberate adulteration of crude drugs **(5marks)**
6. Describe the organoleptic methods used in evaluation of crude drugs quality and its limitation **(9marks)**

SECTION C: LAQs: Answer all (60 marks)

1. Discuss quality standards applicable to all crude drugs of medicinal importance **(20marks)**
2. Describe the physical methods used in evaluation of the quality crude drug **(20marks)**
3. Discuss the classes, properties, therapeutic uses and tests of resins **(20marks)**