



October University for Modern Sciences & Arts Final Exam

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| Faculty | Pharmacy |
| Department | Pharmacognosy |
| Module Code | PHG112 |
| Module Title | Pharmacognosy |
| Semester | Spring 2023 |
| Date | 15-6 -2023 |
| Time Allowed | 2 hours |
| Total Mark | 60 marks |
| No. of Pages | 3Pages |
| Material provided | - |
| Equipment permitted | - |
| Additional Instructions | All Answers must be in English otherwise it will not be considered. |

No books, paper or electronic devices are permitted to be brought into the examination room other than those specified above.

All questions are to be answered. The exam is located in THREE PAGES. Total marks= 60

Question 1: Read the following cases and answer the corresponding questions (25 marks)

Case 1

A 9 months pregnant female admitted to the hospital for labor. After delivery, the mother was suffering from severe postpartum hemorrhage. One week later the mother was suffering from low milk secretion.

I-Suggest **a drug** that can be used to treat postpartum hemorrhage, mention **its main active constituent, and how can you test for this active constituent** (3 marks)

II-Suggest the name **of two crude drugs from different organs** to promote her milk production and **mention the main active constituents of these two drugs.** (3 marks)

Case 2

Mr. Mahmoud was diagnosed with severe renal colic due to the presence of kidney stones.

I- Suggest **a drug** that can be used to treat his problem, mention **its main active constituent, and how can you test for this active constituent** (3 marks)

II-What are the other uses of this drug? Do you think that this drug has any contraindications? (2 marks)

III-How can you differentiate between the two species of this drug? (2 marks)

Case 3

Ahmad is an 18- year- old male who suffers from lymphoma. He was admitted to the hospital to take chemotherapy. After taking the required dose, he suffered from vomiting as a side effect to the chemotherapeutic drug.

I-Suggest **a drug** that can be used to treat his problem, mention **its' main active constituent, and how can you test for this active constituents.** (3 marks)

II- Suggest **a drug** that can be used to treat this side effect, mention **its main active constituent, and how can you test for this active constituent.** (3 marks)

Case 4

Mr Tarek is a 50-year-old occasional smoker who started smoking at a young age, with a history of hypertension for three years. As a result from his smoking habits, he is suffering from repeated bronchospasm. Also, he is complaining from low back pain (lumbago)

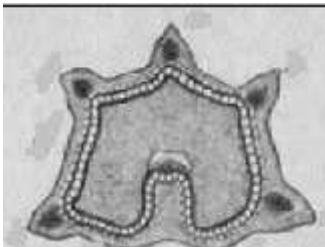
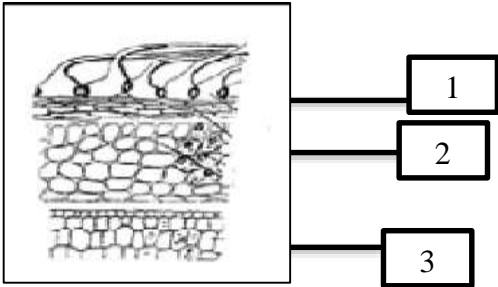
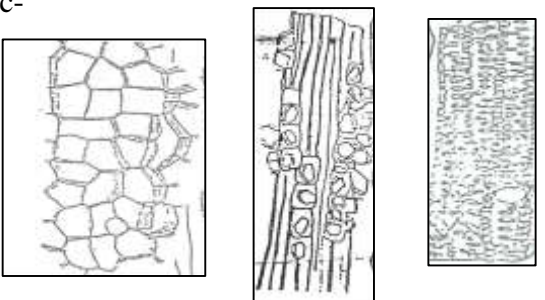


I-Suggest a herbal drug to **control his hypertension.** (Mention the drug name, active constituents, one other use and the chemical test) (2 marks)

II-Recommend a drug to **manage his bronchospasm** (Mention the name, active constituents and chemical test) (2 marks)

III-Suggest a medication that should be added to the patient's regimen to relief his back -ache? (Drug name, active constituents and chemical test) (2 marks)

Question 2: Illustrate the missing data concerning the given figures:

(13 marks, 0.5 mark for each space)

| | |
|---|---|
| <p>a-</p>  | <ul style="list-style-type: none"> The fruit belongs to family..... It differs from the official drug morphologically byand histologically by and is the main active constituent, tested by..... |
| <p>b-</p>  | <ul style="list-style-type: none"> Identity 1-..... 2-..... 3-..... T.S of The drug contains It is used to treat |
| <p>c-</p>  <p style="text-align: center;"> 4 5 6 </p> | <ul style="list-style-type: none"> Identity 4-..... 5-..... 6-..... Name of the drug: Active constituents: and |
|  <p style="text-align: center;">7</p>  <p style="text-align: center;">8</p> | <ul style="list-style-type: none"> The figures represent two unorganized drugs, identify them, suggest the type and one use for each 7-....., its type is....., and is used as..... 8-....., its type is....., and is used as..... <p>Pepsin is an animal drug prepared from</p> <p>It is used</p> |

Question 3: Enumerate two of each of the following:

(5 marks, 0.5 each sentence)

- a- Drugs from different organs belonging to the same family
- b- Toxic drugs
- c- True, dry, simple, dehiscent fruits
- d- Seeds with a testa of two coats
- e- Fruits formed from the whole inflorescence
- f- Drugs from different organs rich in volatile oils
- g- Characters of lemon peel
- h- Different pungent principles
- i- Different animal drugs having medicinal uses
- j- True, dry, simple and indehiscent fruits

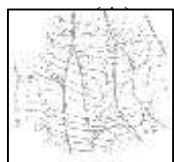
Question 4: Justify for each of the following statements:

(5 marks, 1 mark each)

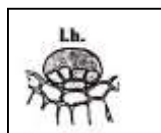
- a- Fennel is added to laxative preparation
- b- Linseed is not considered a toxic drug
- c- Cardamom should be recently separated from the fruit
- d- Lobelia herb is known as asthma weed and indian tobacco
- e- Distillation residues of coriander are suitable for animal feed

Question 5: You are supplied with a tea bag composed of three drugs detected from the following drawings:

(12 marks)



1

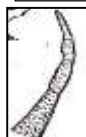


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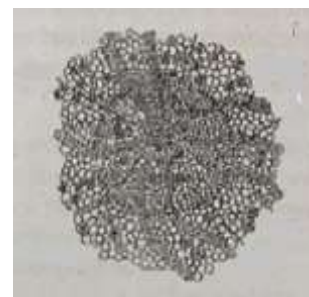


2

4



5



(A)

(B)

(C)

- a) Suggest **ONE** common medicinal use for this mixture and explain the role of each drug. (1 mark)
- b) Identify the key elements (1-4), then identify the corresponding drugs (A and B). (3 marks)
- c) Describe the drawing 5, then identify drug C. (2 marks)
- d) For each drug in this mixture, mention the **part used**, **main active constituent** and how can you **test for this active constituent**. (6 marks)

End of questions