Philadelphia University

Faculty of Pharmacy

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Student Name: Student Number:

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First/Second/Final Exam Duration of Exam: 120 minutes

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- Number of pages including this first one =
- Total number of pages =
- Total mark = 63, with 3 as bonus.

# **QUESTION I:** CHOOSE THE MOST CORRECT ANSWER IN EACH OF THE FOLLOWING QUESTIONS? [34 marks]:

## 1-silybum marianum seeds used in Europe largley for:

a-hepatitie b-jaundice c-hypolipidemia d- a+b D

#### 2-glycyrrhizin is:

a-Saponin glycosides b- triterpene c- a+b d- flavonoid glycosides C

#### 3-berberine alkaloid obtained from:

a-sanguinaria Canadensis b- laminaria ascophyllum c-gentiana lutea d-chamomilla matricaria A

#### 4- Large quantities of ....... if taken can cause epileptic fits and psychiatric disturbances:

a- Artemisia absinthium b- Urtica diodica c- Silybum marianum d- Amanita phalloides. A

## 5- nausea and vomiting with abdominal spasm (motion sickness) is treatment by: C

a-populus species b- coumarins c- hyoscine or antihistamins d- amanita phalloides

## 6-alginate used for:

a-constipation b- GIT inflammation c-coronary insufficiency d- hemorrhoids b

## 7-gentiana root contains:

a-terpenoid secoiridoide b- v.oil c-saponins d- berberine a

## 8-alginates obtained from :

a-sea weed b-brown algae c-laminaria or ascophyllum nodosum d- all of above d

## 9-stimulant laxatives work by:

a-increase the tone of the smooth muscle of intestine b-formation of bulk material c-lubrication of the stool d- increasing of the water content of stool. a

# 10-one of the followings is wrong, mineral oils contraindication is/are:

a-increase absorption of fat soluble vitamins b-elderly patients at risk of pneumonitis c-increase water retention in the stool d-emollients may decrease the absorption of mineral oils which lead to hepatotoxicity a

# 11-chamomile agrees with the followings except:

a-the part used is the flowers b-it contain bisabolol for peptic ulcer c-contain chamazulene d-contain berberine d

#### 12-lactulose is:

a-OTC drug b- prescription medicine c-food supplement d- controlled drug b

# 13- cynara scolymus ( artichoke ) is used for:

a-dyspepsia b-hepatotoxicity c-lipid profile d-all of above d

## 14- gentian root is used for:

a-after large meal b-suppress gastric secretion c- suppress liver damage d-a+c d

#### 15- artemesia absinthium common name: b

a-artimesia cinia berg b-wormwood c-artichoke d-andrographis

## 16-amanit philloides a mushroom which may cause :

a-necrosis of the liver b-bacterial infection of liver c-hyperlipidemia d-hypolipidemia a

## 17-Shisandra complies with:

a-mangolian vine b-contain lignin c-it is liver-protecting d-a+c d

## 18-curcuma domestica is:

a-used for hypercholesterimia b-daily dose is 2gm c-the part used is rhizome d-all of above d

#### 19-curcuma longa contains:

a-curcumin b-v. oil c-antioxidant d-a+b+c d

#### 20-red clover main constituents are:

a- genistein b- linoleic acid c-actein d- linolenic acid a

## 21-glycin max contains:

a-stigmasterol b- $\beta$ -sitosterol c-linolenic acid d-all of above d

#### 22-the effect of black kohosh:

a-hypoglycemic b-antihypertensive c-regulate the hormonal imbalance d-not known c

## 23-origanum vulgare uses are:

a-liver protection b-regulate the hormonal imbalance c- Indigestion d-all of above c

#### 24- Nettle:

a- Is mainly used for low stomach acidity. b-Inhibits the proliferation of the prostate epithelial. c- Anti-diabetic d-all of above B

#### 25-trigonella foenumgraecum effect includes:

a- hypoglycemic b-liver metabolism c- pancrease damage d-all of above a

#### 26-best cinnamon dose for diabetes is:

a-100 mg/kg b-500mg/kg c-200mg/kg d-50mg/kg body weight c

## 27-guar gum is obtained from which part of the guar plant?

a- Leaves. b- Seeds c- Rhizome and roots d- Bark.

#### 28-black kohosh contain:

a-triterpene glycosides b-v.oil c-carbohydrates d-alkaloids a

## 29-saw palmetto used for:

a-hypertension b-diabetes c-BPH d-allergy c

#### 30-nettle agree with:

a-urtica dioica is the scientific name b-herb and root used c-it inhibits 5-alpha reductase enzyme d-a+b d

#### 31-mode of action of saw palmetto is:

a-Inhibit 5-alpha reductase enzyme b-potentiate the enzyme catalyze formation of dihydrotestosterone c-inhibit proliferation of human prostate epithelial cells d-a+b a

# 32-Syzygium aromaticum is remarkably used for:

a- Arthritis. b- Glaucoma c- Toothache d- Nausea and vomiting C

# 33- A throat spray containing sage and ...... was comparable in results to chlohexidine/lidocaine spray and even better:

a- Wormwood b- Origanum c-Clove d- Coneflower D

#### 34- clove agree with:

a-flower buds of syzygium aromaticum	b-used for orthopharnyx treatment	c-used for eye
preparations d-used for nose preparation	ons a	

- 35. All the followings concerning Digitalis glycosides are TRUE except:
- a. The increase the contractility of the heart. b. They have negative inotropic effect.
- c. The decrease the conductivity of the heart. d. Foxglove is the botanical source.

# **QUESTION II:** ? [17 marks]: Answer the following questions:

- 1. How do anti-infectious preparations do their effect?
- a. They are antiseptic and have anti-microbial effect.
- b. They promote wound-healing by stimulating wound healing
- 2. Why are plants considered very valuable in treatment of infectious diseases (Give  $\underline{ONE}$  reason)? Give  $\underline{AN}$  EXAMPLE for your answer?

**The reason:** They contain intrinsically anti-microbial compounds that are produced for defense mechanisms.

**Example**: carvacrol in *Thymus vulgaris* and phytoalexins in sweat pea).

- 3. What is the meaning of decotion as a technique of extraction? Extraction by boiling (water).
- 4. What is the mechanism of action of *Pelargonium* as an anti-infectious plant? Mention  $\underline{ONE}$  point.
- 5. What is the scientific name of Lemon palm? Melissa officinalis.
- 6. Mention **ONE** main constituent of garlic? And list down **TWO** effects?

#### constituent:

Effects: a. b.

7. Mention **TWO** uses of tea tree?

USES: a.

b.

8. What is the mean constituent of Uva ursi, and mention ONE use of it?

Main constituent:
<u>Use:</u>
9. What is the active constituent in Cranberry?
10. What is the indication (clinical use) of mefloquine?
11. What is the use of artimisinin?
12. Chrysanthimum species contains the active constituentthat is used as an insecticide.
13 is a plant belonging to Plantaginaceae, and it
contains the active cardenolides like digitoxin that are used to treat
14. The loading dose of digoxin depends on (mention $\underline{THREE}$ factors)?
a. b.
<b>C.</b>
15. Ginkgolides have the following effect
16.

Question 3: multiple choice cases 2,3,4,5,6...... (5 marks)

CASE 2 3 4 5 6

CASE	2	3	4	5	6
NUMBER					