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2020

D. Pharm 1st Year End Term Examination

PHARMACOGNOSY

Full Marks – 80

Time – Three hours

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

1. Multiple choice questions (20 × 1 = 20)
- (i) The term "Gignosco" refers to
 - (a) A treatment
 - (b) To acquire the knowledge of
 - (c) A drug
 - (d) Study of
 - (ii) Guard cells are covered with radially arranged subsidiary cells known as
 - (a) Anisocytic stomata
 - (b) Anomocytic stomata
 - (c) Diacytic stomata
 - (d) Actinocytic
 - (iii) Properties of tannin
 - (a) Astringent
 - (b) Anticancer
 - (c) Antidiabetic
 - (d) Antitussive
 - (iv) Papain is _____
 - (a) Proteolytic enzyme
 - (b) Amylolytic enzyme
 - (c) Lipolytic enzyme
 - (d) None of these

[Turn over

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Azimul Haque
Trowahat
- (v) Example of true alkaloid
- (a) Atropine
 - (b) Caffeine
 - (c) Ephedrine
 - (d) All of these
- (vi) Chemical constituents present in *Nux vomica* seeds
- (a) Reserpine
 - (b) Strychnine
 - (c) Vincristine
 - (d) Ajmalicine
- (vii) Example of drug possess diuretic property
- (a) Gokhru
 - (b) Cinchona
 - (c) Amla
 - (d) Termeric
- (viii) Biological source of Neem
- (a) *Azadirachta indica*
 - (b) *Catharanthus roseus*
 - (c) *Atropa belladonna*
 - (d) *Rauwolfia serpentine*
- (ix) Method of extraction of citrus oil is
- (a) Enfleurage
 - (b) Ecuelle
 - (c) Stas otto method
 - (d) Maceration
- (x) A drug causing expulsion of gas from stomach is called _____
- (a) Carminative
 - (b) Diuretics
 - (c) Antitussive
 - (d) Astringent
- (xi) Family of Rhubarb
- (a) Solanaceae
 - (b) Leguminosae
 - (c) Polygonaceae
 - (d) None of these

(xii) Vitamin A found in

- (a) Shark liver oil
- (b) Rice
- (c) Amla
- (d) None of these

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(xiii) Father of Homeopathy medicine

- (a) Samuel Hahnemann
- (b) Dioscordies
- (c) George Bentham
- (d) Seydler

(xiv) Swelling factor of crude drug is evaluated to determine

- (a) Tannin present in crude drug
- (b) Inorganic substance present in crude drug
- (c) Mucilage present in crude drug
- (d) Fatty material present in drug

(xv) Shinoda test used to detect

- (a) Flavonoid
- (b) Glycoside
- (c) Alkaloid
- (d) Protein

(xvi) Chief constituent of sandal wood oil is

- (a) Santalum
- (b) Santalol
- (c) Santalene
- (d) (b) and (c)

(xvii) Isobilateral leaf example

- (a) Digitalis
- (b) Senna
- (c) Vinca
- (d) (b) and (c)

(xviii) Medullary rays can be seen in

- (a) Leaf
- (b) Fruit
- (c) Flower
- (d) Root

(xix) Following which is common character of Umbelliferous fruit

- (a) Volatile oil content
- (b) Stimulant
- (c) Carminative
- (d) All of these

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(xx) Water soluble part of tragacanth is known as _____

- (a) Tragacanthin
- (b) Bassorin
- (c) Tragacantha
- (d) All of these

2. Answer any six questions

(6 × 5 = 30)

- (a) Write down the significance of determining organoleptic character in drug evaluation process. Discuss with example. (2+3)
- (b) Define the terms: Antirheumatics, Astringent, Purgative, Oxytocic, Disinfectant (1 × 5 = 5)
- (c) Write down the sources and uses of Yeast and Papain enzyme. (5)
- (d) Define Pharmaceutical aids. Write down the general properties of Pharmaceutical aids. Write down the utilization of honey, Acacia, Starch in pharmaceuticals. (1+1+3)
- (e) Write down the biological source of Dioscorea, Liquorice, Ginger, Coriander, clove. (5)
- (f) Define and classify tannin with example. Write down the chemical test of tannin. (3+2)
- (g) Define balsamic resins with examples. Differentiate between oleo resin, gum resin, oleo gum resin. (2+3)
- (h) Define and classify stomata with label diagram. (5)

3. Answer any three questions from the following:

(3 × 10 = 30)

- (a) Write details isolation procedure and general chemical test of alkaloids. (10)
- (b) Write details cultivation and collection procedure of Senna and opium. (2 × 5 = 10)
- (c) Enumerate the details microscopy of Fennel and Cinchona. (2 × 5 = 10)
- (d) Write short note on Ayurveda and siddha system of medicine. (10)
- (e) Write down the general properties of enzymes and volatile oil. What are the different types of drug evaluation processes are there as per WHO guideline. Discuss any one among those. (2+2+2+4)