

## Annual/Reappear (Year I) Examination July 2022

| Programme: D. Pharm Subject: Pharmacognosy |   |                              |                        |                             | Full Marks: 80<br>Time: 3 Hrs. |  |  |
|--|---|------------------------------|------------------------|-----------------------------|--------------------------------|--|--|
| Subj                                       | ect Code: ER2   | 20-13T                       |                        |                             |                                |  |  |
| Enro                                       | llment No:  |                              |                        |                             |                                |  |  |
|  |   |                              | Section I              |                             |                                |  |  |
| 1. <b>O</b> ł                              | ojective type q   | uestions. Answer a           | all questions.         |                             | $1 \times 20 = 20$             |  |  |
| i.   | The term 'Pha   | armacognosy' was co          | oined by               |                             |                                |  |  |
|  | a) Seydler  | b) Pelletier                 | c) Sertuener           | d) Stars ar                 | nd Otto                        |  |  |
| ii.  | Palisade ratio  | is                           |                        |                             |                                |  |  |
|  | a) Total num  | ber of palisade cells        | beneath mesophyll      |                             |                                |  |  |
|  | b) Average number of palisade cells beneath each upper epidermal cell           |                              |                        |                             |                                |  |  |
|  | c) Total number of palisade cells beneath each upper epidermal cell             |                              |                        |                             |                                |  |  |
|  | d) None of th   | e above                      |                        |                             |                                |  |  |
| iii.                                       | The alkaloids   | are present in plant         | s in the form of       |                             |                                |  |  |
|  | a) Mineral sa   |                              | se c) Salts of organic | acids d)                    | Lactones of organic acids      |  |  |
| iv.  | Homogenous  | mixture of resin and         | d oil are called as    |                             |                                |  |  |
|  | a) Oleoresin  | s b) Glycoresins             | c) Balsams             | d) Oleogu                   | m resins                       |  |  |
| v.   | Name the dru  | g which contains O           | leo gum resin          |                             |                                |  |  |
|  | a) Myrrh  | b) Garlic                    | c) Coriander           | d) Nux vo                   | mica                           |  |  |
| vi.  | Keller Kilian   | i test is the identification | ation test for         |                             |                                |  |  |
|  | a) Senna  | b) Digitalis                 | c) Aloevera            | d) Cinnam                   | ion                            |  |  |
| vii.                                       | Glycosides an   | re condensation proc         | lucts of               |                             |                                |  |  |
|  | a) Protein + aglycone b) Sugar + Protein c) Sugar + aglycone d) Fats + aglycone |                              |                        |                             |                                |  |  |
| viii.                                      | Characteristics features of Umbelliferous fruits                                |                              |                        |                             |                                |  |  |
|  | a) Two mericarp join together by a thread like structure called as carpophore   |                              |                        |                             |                                |  |  |
|  | b) Primary ridges are 5 or more runs from apex to base                          |                              |                        |                             |                                |  |  |
|  | c) All umbelliferous fruits contain Volatile oil                                |                              |                        |                             |                                |  |  |
|  | d) All of the above   |                              |                        |                             |                                |  |  |
| ix.  | The biological source of cotton fiber is  |                              |                        |                             |                                |  |  |
|  | a) Gossypium barbadense   |                              | b)                     | b) Cyamopsis tetragonolobus |                                |  |  |
|  | c) Arachis hypogaea   |                              | d)                     | Saraca indica               |                                |  |  |
| х.   | Water soluble   | e constituent of Ergo        | ot is                  |                             |                                |  |  |
|  | a) Ergotamin  | e b) Ergome                  | trine c) Ergosin       | e d)                        | Ergocryptine                   |  |  |
| xi.  | Papaverine showspharmacological activity  |                              |                        |                             |                                |  |  |
|  | a) Emetic   | b) Antituss                  | sive c) Vasodil        | ator d)                     | Antipyretic                    |  |  |
| xii.                                       | In which Ayurvedic formulation preservative is not required?                    |                              |                        |                             |                                |  |  |
|  | a) Lepa   | b) Vatika                    | c) Pisti               | d)                          | Asava                          |  |  |
| xiii.                                      | Vati is another name of   |                              |                        |                             |                                |  |  |
|  | a) Tablets  | b) Resins                    | c) Oils                | d)                          | Powders                        |  |  |
| xiv.                                       | Probiotics are  |                              |                        |                             |                                |  |  |
|  | a) Synthetic nutraceuticals   |                              | b) Helpful             | bacteria                    |                                |  |  |

|   | c) Vitamin supplement  | nts                 | d) Digestive enzym           | d) Digestive enzymes |  |  |  |
|---|--|---------------------|------------------------------|----------------------|--|--|--|
| XV  | Powder made by calcification known as,   |                     |                              |                      |  |  |  |
|   | a) Churna  | b) Ark              | c) Bhasma                    | d) Pak               |  |  |  |
| xvi   | . Which volatile oil con   | lbum                |                              |                      |  |  |  |
|   | a) Lavender oil  | b) Rose oil         | c) Sesame oil                | d) Sandalwood oil    |  |  |  |
| xvii  | . One of the following   | is animal source of | drug                         |                      |  |  |  |
|   | a) Honey   | b) Rose             | c) Clove                     | d) Vasaka            |  |  |  |
| xviii   | . Mayer's reagent cons   | sist of             |                              |                      |  |  |  |
|   | a) Potassium bismuth iodide  |                     | b) Potassium mercuric iodide |                      |  |  |  |
|   | c) Saturated solution of picric acid   |                     | d) Iodine in KI              | d) Iodine in KI      |  |  |  |
| xix   | . Agarose is   |                     |                              |                      |  |  |  |
|   | a) Monosaccharide  | b) Disaccharide     | c) Polysaccharide            | d) Trisaccharic      |  |  |  |
| XX.   | Cod liver oil is rich  |                     |                              |                      |  |  |  |
|   | a) Vitamin A   | b) Vitamin B1       | c) Vitamin C                 | d) Vitamin D         |  |  |  |
| 2.  | <b>State whether True or</b>   | False.              | ,                            | $1 \times 10 = 10$   |  |  |  |
| a) Asafoetida is known as Devil's Dung.   |  |                     |                              |                      |  |  |  |
| b) Fennel is used as laxative c) Carl Linnaneus devised the binomial classification system.   |  |                     |                              |                      |  |  |  |
|   |  |                     |                              |                      |  |  |  |
|   |  |                     |                              |                      |  |  |  |
|   |  |                     |                              |                      |  |  |  |
|   |  |                     |                              |                      |  |  |  |
|   |  |                     |                              |                      |  |  |  |
| i) Volatile oils are less denser than water.  |  |                     |                              |                      |  |  |  |
|   |  |                     |                              |                      |  |  |  |
|   |  |                     | Section II                   |                      |  |  |  |
| 2   | Chart Angreen temp and   | ations Answers      | Section II                   | $4 \times 5 = 20$    |  |  |  |
| 3.  | a) Describe the various  | $4 \times 5 = 20$   |                              |                      |  |  |  |
|   | <b>'</b>   |                     |                              |                      |  |  |  |
| <ul><li>b) Give the various chemical tests for Glycosides.</li><li>c) Write a note on the various adulterants of the clove.</li></ul> |  |                     |                              |                      |  |  |  |
|   |  |                     |                              |                      |  |  |  |
|   | <ul><li>Discuss the preparation procedure of Agar.</li><li>Define nutraceuticals. Write a short note on spirulina.</li></ul> |                     |                              |                      |  |  |  |
|   | <ul><li>e) Define nutraceutical</li><li>f) Write a Short note o</li></ul>  |                     |                              |                      |  |  |  |
|   | 1) Write a Short note of   | n Siddha and Chain  | bystem of medicine.          |                      |  |  |  |
|   |  |                     |                              |                      |  |  |  |
| Lo  | ng Answer type questio   | $3 \times 10 = 30$  |                              |                      |  |  |  |
| 4.  | Define Pharmacognosy. Explain the history and scope of Pharmacognosy.  |                     |                              |                      |  |  |  |
| 5.  | Define cardiotonics. Describe a drug having the cardiotonic properties.  |                     |                              |                      |  |  |  |
| 6.  | . Describe the life cycle of the Ergot.  |                     |                              |                      |  |  |  |
| 7.  | 7. Write the biological source, chemical constituents and uses of  |                     |                              |                      |  |  |  |
|   | a) Opium b) Cinchon  | a                   |                              |                      |  |  |  |
| 8.  | Define Enzyme. Write a note on Diastase & Yeast.   |                     |                              |                      |  |  |  |

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