

Roll No.: _____

Enrolment No. _____

PARUL UNIVERSITY
PARUL INSTITUTE OF PHARMACY AND RESEARCH
B.PHARM. FIFTH SEMESTER
FIRST INTERNAL THEORY EXAMINATION: 2022-23

Subject Name: Pharmacognosy & Phytochemistry – II

Subject Code: BP504T

Time: 7:45 AM – 9:00 AM

Date: 21/07/2022

Total Marks: 30

Instructions:

1. Figures to the right indicate full marks.
2. Make suitable assumptions wherever necessary.

Q.1 Multiple Choice Questions:

- | | | | |
|------|--|--------------------------|----|
| (1) | Shikimic acid pathway is also called as | | 01 |
| | (a) acetate synthesis | (b) terpenoid synthesis | |
| | (c) aromatic aminoacid synthesis | (d) fatty acid synthesis | |
| (2) | Hydroxy phenylalanine is | | 01 |
| | (a) Tyrosine | (b) Shikimic acid | |
| | (c) Prephenic acid | (d) Mevalonate | |
| (3) | Substrate for shikimic acid pathway is | | 01 |
| | (a) Pyruvic acid | (b) IPP | |
| | (c) DOX | (d) Malonyl CoA | |
| (4) | Simple indole alkaloids are derived from | | 01 |
| | (a) Tyrosine | (b) Tryptophan | |
| | (c) Phenylalanine | (d) Malonyl CoA | |
| (5) | A common step in aminoacid pathway is | | 01 |
| | (a) Substitution reaction | (b) Deamination | |
| | (c) Reductive amination | (d) Sulphonation | |
| (6) | A saturated picric acid solution in cold water used for the detection of alkaloids is known as | | 01 |
| | (a) Wagner's reagent | (b) Hager's reagent | |
| | (c) Dragendorff's reagent | (d) Mayer's reagent | |
| (7) | Chemically glycyrrhizin is a | | 01 |
| | (a) Carotenoid | (b) Diterene | |
| | (c) Steroid | (d) Triterpenoid | |
| (8) | Which of the following crude drug contains bufedienolide? | | 01 |
| | (a) Digitalis | (b) Dioscorea | |
| | (c) Squill | (d) Liquorice | |
| (9) | An example of pseudo alkaloid is | | 01 |
| | (a) Atropine | (b) Coniine | |
| | (c) Nicotine | (d) Caffeine | |
| (10) | Identify incorrect sentence for digitalis | | 01 |
| | a) It belongs to scrophulariaceae family | | |
| | b) It contains cardiac glycosides | | |
| | c) It inhibits Na ⁺ K-ATPase pump | | |
| | d) It is used to synthesize steroids | | |

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- Q.2 Long Answers: (Any One)**
- 1) Describe the acetate pathway in detail. 10
 - 2) Define and classify Alkaloids with examples. Give detail note on Opium. 10
- Q.3 Short Answers: (Any Two)**
- 1) Describe shikimic acid pathway 05
 - 2) Differentiate following 05
 - a) Cardenolides & Bufadienolides
 - b) Hydrolysable tannins & Condensed tannins
 - 3) Give biological source, Family, Chemical constituents and uses of drugs commonly known as: 05
 - a) Yam
 - b) Foxglove
 - c) Indian snake root
 - d) Jethimadh
 - e) Deadly nightshade