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DR. BABASAHEB AMBEDKAR TECHNOLOGICAL UNIVERSITY, LONERE

End Semester Examination – Winter 2023

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Date: 10/01/2024

Course:	T.Y.B. Pharmacy	Sem:	V
Subject Name:	Pharmacognosy and Phytochemistry - II	Subject Code:	BP504T
Max Marks:	75	Duration:	3 Hrs.

Instructions:

1. All questions are compulsory
2. Draw diagrams / figures wherever necessary
3. Figures to right indicate full marks

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Q. 1. Objective Type Questions (Answer all the questions) (10 x 2) = 20

- i) Write identification test of Quinine.
- ii) Define metabolites and metabolic pathway.
- iii) Suggest a chemical test for tropane alkaloids and explain it.
- iv) Draw a neat labelled diagram of the T. S. of Ephedra stem.
- v) Write the biological source and uses of Senna leaf.
- vi) Give the source and utilization of Artemisinin.
- vii) Write adulterants of Clove flower bud.
- viii) Write the chemical structure of Reserpine and Rutin.
- ix) Define radioactive isotopes with examples.
- x) Name any two resinous drugs and give their uses.

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Q. 2. Long Answers (Answer 2 out of 3)

(2 x 10) = 20

- i) Explain Shikimic acid pathway and its significance.
- ii) Enumerate any four modern methods of extraction and explain in detail about Super Critical fluid extraction with their advantages and disadvantages.
- iii) Discuss the industrial production and utilization of Atropine and caffeine.

Q. 3. Short Answers (Answer 7 out of 9)

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(7 x 5) = 35

- i) Write the isolation and analysis of Glycyrrhetic acid.
- ii) Give the biological source, chemical tests and uses of Benzoin.
- iii) Explain column chromatography.
- iv) Prepare a note on Spectroscopy in identification of Phytoconstituents.
- v) Write botanical source and chemical constituents and uses of Digitalis.
- vi) Define Glycoside. Classify glycosides based on the glycosidic linkages.
- vii) Compare and contrast Pale catechu and Black catechu.
- viii) Write biological source, chemical constituents and uses of Deadly night shade plant.
- ix) Define tracer technique and explain in brief steps involved in the tracer techniques.

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