

JBO-4

Seat No. _____

M. P. M. (Sem. V) (W.E.F. 2017) Examination January - 2020

Pharmacognosy & Phytochemistry - II

Time: 3 Hours] [Total Marks: 75

Instructions: (1) Figures to the right indicate marks.

(2) Draw neat and clean diagrams as required.

1 Answer following questions:

20

- (1) Comment on "Fennel contains less volatile oil than coriander fruits."
- (2) Give B.S and uses of Devil's Dung.
- (3) Draw well labelled diagram of T.S of Cinnamon bark.
- (4) Differentiate Decoction and Maceration.
- (5) Give identification test for Atropine.
- (6) Differentiate Siam benzoin and Sumatra Benzoin.
- (7) Give application of IR spectroscopy for herbal drug analysis.
- (8) Differentiate radioisotopes and stable isotopes.
- (9) Give the utilization of vincristine phytoconstituents.
- (10) Write B.S and C.C of antihypertensive alkaloidal drug.
- 2 Answer the following questions: (any two)

20

- (1) Write short note on Radiotracer technique for investigation of biogenetic studies.
- (2) Write pharmacognostical note on Digitalis and Opium.
- (3) Discuss isolation, identification and analysis of Caffeine.

- (1) Write in detail about hot percolation method of extraction.
- (2) Differentiate TLC and HPTLC.
- (3) Discuss in detail about industrial production and utilization of sennoside.
- (4) Write general metabolic pathways used to biosynthesis of Indole alkaloids.
- (5) Write B.S, C.C, morphology, chemical tests and uses of Aloe.
- (6) Define metabolic pathways. Write in detail about general metabolic pathway to biosynthesis of Fatty acids.
- (7) Define Resins. Write a detail note on ginger.
- (8) Write in detail about paper chromatography for herbal drug analysis.
- (9) Discuss in detail about amino acid pathway.