

**DR. BABASAHEB AMBEDKAR TECHNOLOGICAL UNIVERSITY**  
**LONERE- RAIGAD – 402103**  
**Winter Semester Examination – Dec. – 2019**

Branch – B. Pharmacy Third Year

Semester- V

Subject – Pharmacognosy and Phytochemistry II

Subject Code- BP504T

Marks- 75

Date-23/12/2019

Time- 03 Hrs

Instructions- i) All questions are compulsory

ii) Figures to the right indicate full marks

iii) Draw the diagrams or flow charts wherever necessary

**Q. No.1 Multiple Choice Questions (MCQs) (Answer all the questions) = 20 × 1 = 20**

**A] Shikimic acid pathway is an important intermediate pathway from carbohydrate for the biosynthesis of ..... unit.**

- a. C<sub>6</sub>-C<sub>3</sub>                      b. C<sub>12</sub>-C<sub>6</sub>                      c. L-Ornithin                      d. No any one

**B] <sup>14</sup>C have an half-life of ..... years is usefully in biological research.**

- a. 8.8                      b. 20                      c. 5,700                      d. 9,700

**C] Chhotachand is ..... in activity.**

- a. Antineoplastic                      b. Antihypertensive                      c. Antidiabetic                      d. Antiemetic

**D] Preparation of green tea, the leaves are shaken out on the ..... pans.**

- a. Aluminium                      b. Sliver                      c. Gold                      d. Copper

**E] Allied species of Dioscorea .....**

- a. *Dioscorea flouribunda*                      b. *Dioscorea villosa*                      c. *Dioscorea speciosus*                      d. all of these

**F] Eugenol constituent is present in .....**

- a. Fennel                      b. Catechu                      c. Clove                      d. Opium

**G] Goldbeater's skin test is used for detection of .....**

- a. Tannins                      b. Alkaloids                      c. Glycosides                      d. Both b and c

**H] The benzoic acid contents in Sumatra benzoin is not less than ..... %.**

- a. 12                      b. 60                      c. 76                      d. 90

**I] Senna leaf represent histological characters is .....**

- a. Dorsiventral                      b. Cassia                      c. Isobilateral                      d. all of these

**Page 1/3**

**J] Gentian root present major ..... glycosides.**

- a. Coumarin                      b. Isothiocyanate                      c. Sterol                      d. Bitter

**K] The content of artemisin is increased by 30% by applying growth regulator such as ..... before harvesting.**

- a. Chlormequat                      b. Potassium                      c. Thiamine                      d. Gibberellin

**L] Liquorice should have a water soluble extractive not less than ..... % w/w.**

- a. 02                      b. 90                      c. 10                      d. 20

**M] Each ml of 0.1 M perchloric acid equivalent to ..... gm. of quinidine.**

- a. 1.02490                      b. 2.02490                      c. 0.02490                      d. No any one

**N] Curcumin and other related curcumenoids are reported to be responsible for the ..... colour.**

- a. Green                      b. Yellow                      c. Red                      d. Colourless

**O] The alkaloids containing phytoconstituents give reddish brown ppt. with ..... reagent.**

- a. Dragendorff's                      b. Mayer's                      c. Hager's                      d. Tannic acid

**P] Taxus genus also called as .....**

- a. Yam                      b. Yews                      c. Mulethi                      d. Tea

**Q] ..... is used for purification of materials present in a crude extract.**

- a. Percolation                      b. Maceration                      c. Fractional distillation                      d. Sublimation

**R] ..... Spectroscopy is used for detection of functional groups in biomolecules.**

- a. Mass                      b. N.M.R.                      c. I.R.                      d. U.V.

**S] U.V. and Visible spectroscopy measurement of light absorption by substances in wavelength region from .....**

- a. 190-900                      b. 190-380                      c. 380-900                      d. 1-90

**T] Electrophoresis is an ..... process which separates charged particles in a fluid using a field of electrical charge.**

- a. Spectroscopic                      b. Chromatographic                      c. Fermentation                      d. Electrokinetic

**Q. No.2 Long Answers (Answers 2 out of 3) =**

**2×10 = 20**

A] Explain Shikimic acid pathway.

B] Write biological source, family, chemical constituents, uses of;

i. Vinca    ii. Tea    iii. Senna    iv. Dioscorea    v. Myrrh.

C] Explain Soxhlet and Supercritical fluid extraction and its Uses.

**Q.No.3 Short Answers (Answers 7 out of 9) =**

**7×5 = 35**

A] Write a note on radioactive isotopes.

B] Explain Clove and Catechu.

C] Isolation, Identification and Analysis of Rutin.

D] Give short note on Industrial production, estimation and utilization of atropine.

E] Define spectroscopy and chromatography and write its application.

F] Define alkaloid, terpenoids, and explain its chemical tests.

G] Draw T.S. of fennel fruit and explain in brief it.

H] Write a note on Benzoin and difference between Sumatra benzoin and Siam benzoin.

I] Explain in brief Opium and give note on preparation of opium.

----- **END OF PAPER** -----

**Page 3/3**