

PSG COLLEGE OF ARTS & SCIENCE  
(AUTONOMOUS)

BSc DEGREE EXAMINATION DECEMBER 2024  
(Fifth Semester)

Branch – BOTANY

MEDICINAL PLANT SCIENCE

Time: Three Hours

Maximum: 50 Marks

SECTION-A (5 Marks)

Answer ALL questions

ALL questions carry EQUAL marks

(5 x 1 = 5)

- 1 The study of use of medicinal plants are known as
  - (i) Herbarium
  - (ii) Pharmacognosy
  - (iii) Herbalism
  - (iv) None of the above
- 2 Flavours and perfumes are
  - (i) . Oils
  - (ii) Volatile oils
  - (iii) Essential oils
  - (iv) Lipids
- 3 Ashwagandha is useful in treatment of
  - (i) Blood sugar
  - (ii) Cancer
  - (iii) Stress management
  - (iv) All the above
- 4 Botanical name of Saffron is
  - (i) *Crocus sativus*
  - (ii) *Piper nigrum*
  - (iii) *Aloe vera*
  - (iv) *Myristica fragrans*
- 5 The drugs used to increase the efficiency and improve the contraction of the hearts is called as
  - (i) cardiotonic
  - (ii) neurotonic
  - (iii) musculotonic
  - (iv) paratonic

SECTION - B (15 Marks)

Answer ALL Questions

ALL Questions Carry EQUAL Marks

(5 x 3 = 15)

- 6 a) Is algae a medicinal plant? Explain.  
OR  
b) Differentiate adulteration and substitution.
- 7 a) How do botanic gardens help protect in plants?  
OR  
b) State the medicinal products of Asafoetida.
- 8 a) Can *Phyllanthus amarus* cure malaria? Explain.  
OR  
b) Explain the bioactive compounds in *Vitex negundo*.

Cont...

- 9 a) Comment on the active principles of Cinchona.  
OR  
b) Bring out the benefits of *Terminalia bellerica* fruit.
- 10 a) Explain about Laxatives and carminatives with examples.  
OR  
b) Show the role of antioxidants in the human body.

**SECTION -C (30 Marks)**

Answer **ALL** questions

**ALL** questions carry **EQUAL** Marks

(5 x 6 = 30)

- 11 a) Classify the medicinal plants based on chemical basis.  
OR  
b) Survey the methods of preparing drugs for the commercial market.
- 12 a) Analyze the methods of *ex-situ* conservation of medicinal plants  
OR  
b) Discuss the importance of quinone and terpenoids in plant products.
- 13 a) Highlight benefits of rhizomes in medicinal plants.  
OR  
b) Summarize the medicinal uses of *Digitalis* plant.
- 14 a) Enumerate the medicinal use of *Cinchona officinalis*.  
OR  
b) Categorize the active principles of *Cinnamomum verum* bark.
- 15 a) Trace the drugs acting on the central nervous system.  
OR  
b) Infer the types of regulators in urinogenital system. Add notes its significance.

Z-Z-Z

END