

M.Pharm. First Year (Pharmacognosy) CBCS Pattern Semester-I
MPG104T - Industrial Pharmacognostical Technology

P. Pages : 1

Time : Three Hours



GUG/W/23/14161

Max. Marks : 75

- Notes :
1. All questions are compulsory.
 2. All questions carry as indicated marks.
 3. Illustrate your answers wherever necessary with the help of neat sketches.

1. Short note answer **any ten**. **10x2
=20**
- a) Define standardized extract with suitable example.
 - b) Enlist any 4 challenges in upgrading and modernization of herbal formulations.
 - c) What are EXIM policy and TRIPS.
 - d) What are TQM and ISO-9000.
 - e) What is stability testing of natural products.
 - f) Enlist any 4 steps in clinical laboratory testing of herbal products.
 - g) Define GI and copyright.
 - h) Enlist patentable subject matters.
 - i) Enlist any 4 parameters of monographs of herbal drugs.
 - j) What are different herbal dosage forms.
 - k) ISO-9000.
 - l) Concept of GMP.
2. Short essay answer **any five**. **5x7
=35**
- a) Discuss about infrastructure of herbal drug industry involved in production of standardized extracts and various dosage forms.
 - b) Explain current challenges in upgrading and modernization of herbal formulations.
 - c) Describe WHO guidelines in quality assessment of herbal drugs.
 - d) Explain stability testing of natural products and protocols.
 - e) Discuss proposed amendments as applicable to herbal/natural products and process.
 - f) Explain in detail procedure for Indian patent filing.
 - g) Write a note on Quality assurance in herbal/natural drug product.
3. Long essay answer **any two**. **2x10
=20**
- a) Describe entrepreneurship development, project selection, project report, technical knowledge, Capital venture, plant design, layout and construction in Herbal drug industry.
 - b) Discuss quality assurance in herbal/natural drug.
 - c) Explain general parameters of monographs of herbal drugs and comparative study in different pharmacopoeia.
