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2023

B.Pharm. 8th Semester End-Term Examination

QUALITY CONTROL AND STANDARDIZATION OF HERBALS (THEORY)

(New Regulation w.e.f. 2017-18)

Full Marks – 75

Time – Three hours

The figures in the margin indicate full marks
for the questions.

1. Answer all questions : (20)
- (A) Multiple choice questions : (10 × 1 = 10)
- (i) Gentamycin injection is a sterile solution usually containing _____ of Gentamicin
- (a) 10-40 mg (b) 100-400 mg
- (c) 20-40 mg (d) None of the above
- (ii) Frozen herbal material should be stored below
- (a) -10°C (b) -18°C
- (c) 0° C (d) None of these
- (iii) Quality assurance of herbal medicinal products is the responsibility of
- (a) Manufacture (b) Regulatory bodies
- (c) Both (a) and (b) (d) NOA
- (iv) Astringent property is determined by amount of _____ present in the drug
- (a) Tannin (b) Saponin
- (c) Glycoside (d) None of above

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- (v) Unani system of medicine has its root in _____.
- (vi) Form number _____ is required for the issue of permission to import or manufacture of a new drug.
- (vii) Components of GMP includes _____
- (viii) EMA stands for _____
- (ix) TTC stands for _____
- (x) _____ is the only authorized apex body to grant permission to manufacture/import of new drug in India.

2. Answer any *seven* from the following (7 × 5 = 35)

- (a) Enlist Ayurvedic drug manufacturing license approval steps. (5)
- (b) Give objectives for basic test of drugs. (5)
- (c) Write a note on guidelines for stability testing of herbal medicine. (5)
- (d) Write a note on chemical and biological markers in standardization of herbal products. (5)
- (e) Explain GACP on herbal medicinal plants. (5)
- (f) Differentiate between TLC and HPTLC. Give two tests for identification of Tannin. (2+3)
- (g) Define OECD guidelines. Describe the OECD guidelines for evaluating the safety and efficacy of herbal medicines. (1+4)
- (h) Describe in details the process for the preparation of document for new drug application (NDA). (5)
- (i) Write a note on challenges in monitoring the safety of herbal medicine. (3+2)

3. Answer any *two* from the following : (2 × 10 = 20)

- (a) What is Pharmacovigilance? Enumerate WHO guidelines on safety monitoring of herbal medicine in Pharmacovigilance system. (2+8)
- (b) Explain in detail about the WHO guidelines of quality control of herbal drugs. (10)
- (c) Write a note on anyone of the following. (10)
 - (i) European Union regulatory guidelines for quality control of herbal medicine
 - (ii) ICH guidelines for quality control of herbal medicine.