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16443(D) - 8 DEC 2016

B. Pharmacy (Ayur.) 7th Semester Examination

Pharmaceutical Technology for Ayurvedic Drugs-II (NS)

BPA-722

Time : 3 Hours **Max. Marks : 70**

The candidates shall limit their answers precisely within the answer-book (40 pages) issued to them and no supplementary/continuation sheet will be issued.

Note : Question No. 1 is compulsory and candidates are required to attempt any five questions out of remaining six questions.

1. Answer the following:

   (i) Why pilot plant scale up is required?

   (ii) Explain sterile testing.

   (iii) Discuss multi-orifice process for micro encapsulation.

   (iv) Explain large volume parentrals.

   (v) Discuss the concept of sustained drug delivery system,

   (vi) Discuss application of micro encapsulation.

   (vii) Enlist various Noval drug delivery systems with reference to ayurvedic dosage forms.

   (viii) Discuss isotonicity of parentrals.

   (ix) Compare glass and plastic containers for parentrals.

   (x) Write concept of preformulation. (2×10=20)

2. What are the significance of suspension, emulsion, dry powder and implants as parentrals? (10)

3. What are sustained release dosage forms? Mention their specific applications in ayurvedic products and explain the processing of any one product in detail. (10)

4. Discuss the concept of Noval drug delivery system. Mention their advantages over conventional dosage forms. Discuss nanoparticles in detail. (10)

5. Explain the necessity of pilot plant scale up in case of semisolid dosage forms. Justify your answer by giving suitable examples. (10)

6. Explain the process of preformulation studies. How preformulation studies affect the stability in ayurvedic preparations? (10)

7. (a) Briefly discuss core and coating materials for microencapsulation

   (b) Explain Air separation and coacervation phase separation methoids. (2×5=10)