

16451(D) - 0 DEC 2016

B. Pharmacy (Ayur.) 8th Semester Examination

Clinical Pharmacy (NS)

BPA-825

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 1 is compulsory and candidate are required to attempt any five Question out of remaining six.

1. Briefly comment on the following:
 - (a) Clinical pharmacokinetics.
 - (b) Drug clearance.
 - (c) Protein binding.
 - (d) MEC.
 - (e) Dosage regimen.
 - (f) Therapeutic drug monitoring.
 - (g) Patient controlled analgesia.
 - (h) Liver function test.
 - (i) Radiopharmaceuticals.
 - (j) Ambulatory patients. (2×10=20)
2. What is the significance of 'Drug concentration versus time profile'. Explain with a graph and elaborate the terms like 'C_{max}', 't_{max}', 'half life', 'area under the curve' and 'therapeutic window'. (10)

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3. (a) What are the different routes through which a drug can be eliminated?
(b) Explain the dependence of elimination kinetics on clearance and distribution (10)
4. Write notes on:
 - (a) Concentration monitoring
 - (b) Influence of weight on drug therapy (10)
5. What are the technical responsibilities of a pharmacist in a hospital? Explain his role of multitasking in details. (10)
6. Write notes on:
 - (i) Health care delivery system.
 - (i) Individualization of therapy. (5+5=10)
7. Explain:
 - (a) The concept of "multiple dose regimens".
 - (b) Design of dosage regimen from plasma concentration. (5+5=10)