## Roll No.

## **MPY-104**

## M.Pharmacy, I Semester

Examination, November 2019

## **Product Development and Formulation**

Time: Three Hours

Maximum Marks: 70

Note: i) Attempt any five questions.

ii) All questions carry equal marks.

Explain in detail formulation of floating tablets.

Write a note on evaluation of parenterals.

- 2. What are the characteristics of ideal package? Explain various types of containers and closures used in pharmaceutical packaging. http://www.rgpvonline.com
- 3. Write a note on: (any two)

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- ICH Guidelines for stability.
- Biodegradable polymers.
- Computer aided drug formulation.
- 4. Explain the importance and rational of preformulation studies. Describe various physicochemical factors influencing 14 formulation of drug.
- 5. Write a note on: (any two)

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PTO

- Invitro Invivo correlation.
- Types of dissolution apparatus.
- Solid dispersions.

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6. Write note on:

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- a) Determination of shelf life.
- b) Optimization techniques.
- Write a note on regulatory guidelines for the manufacturing of Nutraceuticals.
  - b) Give various polymers used and general method of synthesis in Pharmaceutical industry.

8. Write notes on (any two)

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- Excipient-excipient incompatibility
- Formulation consideration for ophthalmics
- Recent advancement in tablets

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