

March 2009

[KU 328]

Sub. Code: 2864

M.PHARM. DEGREE EXAMINATION

(Regulations 2006)

Candidates admitted from 2006-2007 onwards

FIRST YEAR

Branch V – PHARMACEUTICAL ANALYSIS

Paper II – PHARMACEUTICAL AND COSMETIC ANALYSIS

Q.P. Code : 262864

Time : Three hours

Maximum : 100 marks

Answer All questions

I. Essay Questions :

(3 x 20 = 60)

1. What are in-process quality control tests? What in-process quality control tests are carried out for tablet dosage forms and parenteral preparations?
2. Write the principle and procedures involved in the assay of the following drugs (IP):
a) Benzocaine b) Magnesium sulphate c) Ibuprofen d) Tolbutamide
3. Explain the impact of drug impurities in stability of drugs and its therapeutic action. Write on ICH guidelines for impurity determination in drugs.

II. Write Short Notes :

(8 x 5 = 40)

1. Write a note on quality control of radiopharmaceuticals.
2. Describe the quality control tests for controlled release products.
3. What is shelf life prediction? How is it carried out for life saving drugs?
4. Write methods for extraction of drugs from biological samples.
5. How is the efficacy of baby care products determined?
6. Write quality control tests for dental products.
7. Write a note on toxicity testing in cosmetics.
8. What are personal hygiene products? How are their quality determined?

September 2009

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Answer All questions

I. Essay Questions :

(3 x 20 = 60)

1. Explain the principle and method of assay involved in the determination of the following drugs:
a) Chloroquine phosphate inj. b) Calcium Gluconate tablets.
c) Sulphadiazine tablets d) Frusemide injection
2. Give a detailed note on the Indian standard specifications (ISI) recommended for sampling and testing by the bureau of Indian standards for the cosmetics in the finished products.
3. How the quality of the following cosmetics in the finished forms are determined?
a) Skin care products b) Dental products c) Lip sticks d) Eye shadows.

II. Write Short Notes :

(8 x 5 = 40)

1. How the dyes soluble in both water and alcohol are determined?
2. How the antioxidants present in pharmaceutical formulations are identified and determined?
3. What are the various procedures in quality control tests carried on tablets?
4. How membrane filtration is useful in the extraction of drugs? Add a note on the factors effecting the extraction of drugs.
5. Write a note on ICH guidelines for the determination of impurities and related substances in drugs.
6. How the toxicity is tested in cosmetics?
7. Write a note on applications of radio chemical methods in analysis.
8. Give an account on safety and legislation of cosmetic products.

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Time : Three hours

Maximum : 100 marks

Answer All questions

I. Essay Questions :

(3 x 20 = 60)

1. Explain the principle and method of assay involved in the determination of the following drugs:
a) Ephedrine HCl tablets b) Tolbutamide.
c) Ibuprofen d) Paracetamol tablets
2. a) Write a detailed notes on ICH guidelines for the determination of impurities and related substances in drugs.
b) What are the in process quality control tests performed in Tablets.
3. How the quality of the following cosmetics in the finished forms are determined?
a) Bay care products b) Personal hygiene products
c) Colour cosmetics d) Hair care products.

II. Write Short Notes :

(8 x 5 = 40)

1. What is the possible impurity present in light kaolin and it is determined?
2. What are the in process quality control tests performed on parenteral and sterile preparations?
3. Give the methods of detection and determination of antioxidants in pharmaceutical formulations.
4. What are the specifications recommended by the Bureau of Indian standards for shampoos?
5. What are the various methods of extraction for drugs? Add a note on the factors effecting the extraction of drugs.
6. Trough light on safety and legislation of cosmetic products.
7. Give the general methods of analysis to determine the quality of raw materials.
8. Give an account of quality control of Radio pharmaceuticals.
