

Bachelor of Pharmacy 4thYear, 2nd Semester Examination, 2017(Old)
Subject: Industrial Pharmacy-II

Time : Three Hours

Full Marks: 100

Answer any five questions taking at least one from each group.

Group - A

1. What is occupational hazards ? Write a note on "Radiation Sterilization". Briefly discuss the importance of wearing of personal Dosimeter in radiation unit. 6+10+4=20

 2. a) Write a note on Integrity Testing of HEPA Filter in a Laminar Air Flow hood.
b) Pointout the name of indicators are used to detect the integrity of membrane filter. 16+4=20

 3. a) Write a brief note on "Medical Devices" used to improve the health care system.
b) What is MDR-TB ?
c) Pointout the therapeutic use of Bedaquiline and Resveratrol. 10+4+6=20
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B. Pharm. 4th year 2nd semester Examination 2017 (OLD)

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GROUP - B

4. Discuss the principle problems associated with herbal formulations. Mentioned different guidelines given by GMP, Pharmacopoeia and WHO to overcome these problems.
 $3 + (4 + 3 + 10) = 20$
 5. Mention the standardization protocols for different herbal formulations. How will you detect qualitatively and quantitatively for tannins in crude extract?
 $10 + 10 = 20$
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Name of the Examinations: B.PHARMACEUTICAL TECHNOLOGY FOURTH YEAR SECOND

SEMESTER(Old)-2017

Subject: INDUSTRIAL PHARMACY-II

Time: THREE HOURS Full Marks: 100

Answer any five questions taking at least one from each group

GROUP - C

Q.6 What are the degradation pathways of active ingredients in pharmaceutical dosage forms?

Explain each pathway with illustrations. What are the stabilization methods to be adopted for each degradation situation?

5+5+10

Q.7. Define Q1A, Q1B, Q1E and Q1F as per ICH guidelines. What are the climatic zones worldwide as per ICH guidelines? What are the stability conditions and stations for hot, humid and dry climatic zones? How stability studies are carried out for thermolabile vaccines?

5+5+5+5

Q.8. What are determinants that affect reaction rates in liquid systems? Use mathematical equations in detail with illustrations.

How you stabilize an emulsion system containing fat soluble and water soluble drugs? 10+10

Q.9. Define porosity, true volume, bulk volume, void volume and compressibility index.

How the behavior of granules changes with application and withdrawal of compressive force?

A spherical tablet of 10mm diameter weighing 480 mg and made from material with true density 1.6gm/cc. Calculate the % porosity of the material.

5+10+5