



ANJUMAN-I-ISLAM'S

AIKTC KALSEKAR TECHNICAL CAMPUS

INNOVATIVE TEACHING · EXUBERANT LEARNING

School of Architecture

School of Engineering & Technology

School of Pharmacy

Knowledge Resource & Relay Centre (KRRC)

AIKTC/KRRC/SoP/ACKN/QUES/2017-18/

Date: 31/12/18

School: SoP-CBSGS

Branch: SoP

SEM: VI

To,
Exam Controller,
AIKTC, New Panvel.

Dear Sir/Madam,

Received with thanks the following [✓]Semester/Periodic ^{ATKT} question papers from your exam cell:

Sr. No.	Subject Name	Subject Code	Format		No. of Copies
			SC	HC	
1	Pharmaceutical Chemistry - II				
2	Pharmaceutical Analysis - II				
3	Pharmaceutics - III			✓	02
4	Pharmacognosy & Phytochemistry - I			✓	02
5	Hospital Pharmacy & Drug Store Management				

Note: SC - Softcopy, HC - Hardcopy

(Shaheen Ansari)
Librarian, AIKTC

SEM-VI CBSCS

03/12/18

Q.P. Code : 34979

[Time: Three Hours]

[Marks:70]

Please check whether you have got the right question paper.

- N.B:
1. All questions are compulsory.
 2. Figures to the right indicate full marks.
 3. Draw neat labelled diagrams wherever necessary.

- Q.1 a What are binders? Give the various types used in tablet manufacture with examples. 3
b Explain the layout of a tablet section. 3
c Elaborate on the quality control of enteric coated tablets. 3
d I. Discuss size and size selection of hard gelatin capsule shells. 2
II. How are hard gelatin capsules made tamper proof? 1
e What are the components of a pharmaceutical aerosols?. 3
- Q.2 a Describe the dissolution test I.P. for uncoated tablets. 4
b What are the materials used for blister packing of tablets. Explain the process of blister packing. 4
c Explain the formulation of solution type aerosols. 3
- Q.3 a Elaborate on the steps in sugar coating of tablets explaining the significance of each step. 4
b What are non-gelatin capsules? 3
c Discuss the various types of container materials for aerosols. 4
- Q.4 a Describe the sequence of events during compression using a rotary tablet machine. 4
b Discuss solid fill formulation of soft gelatin capsules. 4
c Explain any two quality control tests for aerosols. 3
- Q.5 a Give the significance of solubility studies in tablet preformulation. 3
b Describe the Wurster process for tablet coating. 4
c Explain a capsule filling machine based on volumetric type 4
- Q.6 a With the help of a diagram explain the working of Chilsonator. 4
b What are the defects seen in film coating? How are they rectified? 4
c Give the quality evaluation tests for hard gelatin capsule shells. 3

Sem - VI
07/12/18

Q.P. Code :32292

[Time: 3 Hours]

[Marks:70]

Please check whether you have got the right question paper.

- N.B:
1. All questions are compulsory.
 2. Illustrate answer with sketches and structures wherever required.
 3. Answer to sub-questions must be written together.

- Q.1 a) Correct the statements if required and justify all the statements with significant reasons or 07 examples.
- i) Isapghol is an organized drug.
 - ii) Gums are collected in rainy season.
 - iii) Aleurone grains are reserves found in leaves.
 - iv) Anthraquinones are synthesized via polyketides pathway.
 - v) Maceration involves continuous boiling of drug in solvent.
 - vi) Veinlets are made up of xylem vessels.
 - vii) Absorbent cotton is regenerated fibre.
- b) Answer the following: 08
- i) Give morphological & microscopic differences between allied species of cinnamon.
 - ii) Give the examples of volatile oil based drugs with structures of relevant phytoconstituents and applications.
 - iii) Write source, preparation and applications of chitin based products.
 - iv) Give source, preparation and uses of thyroid hormones.
- Q.2 i) Give sources of DONO with two examples of each source. 03
- ii) Based on morphology and histology differentiate between barks and woods. Give suitable examples. 04
- iii) Write a detailed note on any one mucilage obtained from marine source. 04
- Q.3 i) Explain countercurrent extraction with suitable examples. 03
- ii) Write a note on: biological method of evaluation of crude drugs. 04
- iii) Differentiate between fibres obtained from animal source. 04
- Q.4 i) Write a note on chemotaxonomical method of classification of DONO. 03
- ii) With the help of suitable examples, explain the importance of drying and storage of crude drugs. 04
- iii) Write general method of extraction for alkaloids and tannins. Explain the principle involved therein. 04
- Q.5 i) Write source, chemical constituents and commercial utility of inulin and TKP. 03
- ii) Write biosynthetic pathway with structures for sesquiterpenoids. 04
- iii) With respect to WHO guidelines, explain the relevance of any two physical tests for quality control of DONO. 04

Q.P. Code :32292

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| Q.6 | i) | Write source, composition and applications of plant lectins. | 03 |
| | ii) | With the help of suitable diagrams and examples, write about different types of inflorescence. | 04 |
| | iii) | Explain endogenous factors affecting quality of crude drugs. | 04 |
