



AIKTC/KRRC/SoP/ACKN/QUES/2018-19/

Date: _____

School: SoP-CBSGS

Branch: SoP

SEM: VI

To,
Exam Controller,
AIKTC, New Panvel.

Dear Sir/Madam,

Received with thanks the following ^(A.T.K.T) **Semester/Periodic** 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 - Softecopy, HC - Hardcopy

(Shaheen Ansari)
Librarian, AIKTC

24/05/19 sem-IV CBSGS

Q.P. Code : 34980

[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 post granulation ingredients used in tablets? Give their role with examples. 3
b Elaborate on multiple compressed tablets. 3
c Describe disintegration test for enteric coated tablets. 3
d Discuss steps in manufacturing of hard gelatin capsule shell. 3
e Write a note on three-phase aerosol systems. 3
- Q.2 a Write causes and remedies for mottling and hardness variation in tablets. 4
b Give an account of materials used in packaging of tablets. 4
c Discuss formulation of foam-type aerosols. 3
- Q.3 a Discuss the raw materials used in various steps of sugar coating process. 4
b Differentiate between various types of gelatin. 3
c Write a note on Metered Dose Inhalers. 4
- Q.4 a Describe the cycle of events during compression using a single punch tablet press. 4
b Define "Bloom strength". Write a note on liquid fill formulation for soft gelatin capsules. 4
c Explain large scale manufacturing of aerosols by pressure filling method. 3
- Q.5 a Write the importance of flow property studies in manufacturing of tablets. 3
b Discuss modifications of conventional coating pans. 4
c Classify various hard gelatin capsule filling equipments and explain Dosator type. 4
- Q.6 a Give an account of dry granulation method in tablet manufacture. 4
b Discuss raw materials used in immediate release film coating. 4
c Describe QC of soft gelatin capsules. 3

Sem - II CBSCS 22/05/19

[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 & justify all the statements with significant reasons or examples. **(07)**
- 1) Presence of tropane alkaloids in Solanaceae represents chemotaxonomical classification.
 - 2) Indole acetic acid is used for ripening of fruits.
 - 3) Stone cells can be stained using phloroglucinol and Hydrochloric acid.
 - 4) Glycosides are primary metabolites.
 - 5) Ash value indicates the presence of organic matter.
 - 6) Sterculia gum has acetic acid odour.
 - 7) Ricin is an example of protein derivative.
- b)** Answer briefly. **(08)**
- i) Give the morphological and histological differences between allied species of cinnamon.
 - ii) Give two examples of tannin-based drugs with structures of relevant phytoconstituents and applications.
 - iii) Give applications of asbestos and glasswool as pharmaceutical aid.
 - iv) State the sources and applications of streptokinase.
- Q.2**
- i) Comment on the role of pharmacognosy in Ayurvedic system of medicine. **(03)**
 - ii) Draw neat labelled diagram to differentiate between histological features of monocot and dicot root. **(04)**
 - iii) Write a note on Acacia or Isapghol. **(04)**
- Q.3**
- i) State principle and commercial applications of microwave extraction. **(03)**
 - ii) Discuss the microscope evaluation of crude drugs. **(04)**
 - iii) Compare and contrast absorbent and Non-absorbent cotton. **(04)**
- Q.4**
- i) Discuss the advantages and disadvantages of morphological and pharmacological classification of crude drugs. **(03)**
 - ii) Discuss the factors affecting cultivation of crude drugs. **(04)**
 - iii) Give general method for extraction of alkaloids. **(04)**
- Q.5**
- i) Write a note on calcium oxalate crystals. **(03)**
 - ii) Discuss the different types of inflorescence. **(04)**
 - iii) Differentiate adulteration and substitution of crude drugs with suitable examples. **(04)**
- Q.6**
- i) Give source, preparation and uses of pepsin. **(03)**
 - ii) With the help of suitable structures outline the shikimic acid pathway. **(04)**
 - iii) Give the role of plant growth hormones in propagation of plants. **(04)**
