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**B.Pharm  
PH.8.1**

**8<sup>th</sup> Semester Regular / Back Examination 2017-18  
PHARMACEUTICS – VII  
(FORMULATION DESIGN & NEW DRUG DELIVERY SYSTEM)  
BRANCH : B.Pharma  
Time : 3 Hours  
Max Marks : 70  
Q.CODE : C102**

**Answer Question No.1 which is compulsory and any five from the rest.  
The figures in the right hand margin indicate marks.**

**Q1 Answer the following questions : (2 x 10)**

- a) Write two techniques for determination of crystallinity of drugs.
- b) Write the formulae of 'Carr's index' and 'Hausner ratio'?
- c) What are the advantages of controlled drug delivery system?
- d) Write medical applications of stealth liposomes.
- e) Explain the feasibility of erythrocytes as carrier system for targeted drug delivery.
- f) What is opsonization? How it can be reduced in case of liposomes?
- g) Differentiate between drugs and cosmetics.
- h) Write the properties of surfactants used in case of baby shampoos.
- i) What do you mean by super critical fluid technology?
- j) Write about the main components of an osmotic pump?

**Q2 a) What is solubility analysis? Write its importance in case of preformulation study. (5)**  
**b) What is polymorphism? Why it is essential to identify a stable polymorph of a drug during preformulation study? (5)**

**Q3 a) Describe briefly about evaluation of sustained release dosage forms. (5)**  
**b) Write in brief about delayed release oral dosage forms. (5)**

**Q4 a) Write about the factors influencing controlled drug delivery system. (5)**  
**b) Describe briefly about dissolution controlled drug delivery system. (5)**

**Q5 a) Differentiate between solvent evaporation method and polymerization method of preparation of nanoparticles. (5)**  
**b) Describe briefly about characterization of liposomes. (5)**

**Q6 a) Explain about the basic components of transdermal drug delivery system. (5)**  
**b) Describe in details about evaluation of transdermal patch. (5)**

**Q7 Write about formulation, preparation and evaluation of different types of shampoos. (10)**

**Q8 Write short answer on any TWO : (5 x 2)**

- a) Nail polish
- b) Ocusert
- c) Baby cream
- d) Partition coefficient

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B.Pharm  
PH.8.3

**8<sup>th</sup> Semester Regular / Back Examination 2017-18**  
**CLINICAL PHARMACY AND THERAPEUTICS**

**BRANCH : B.Pharma**

**Time : 3 Hours**

**Max Marks : 70**

**Q.CODE : C170**

**Answer Question No.1 which is compulsory and any five from the rest.**  
**The figures in the right hand margin indicate marks.**

**Q1. Answer the following questions : (2x10)**

- a) Define the term 'Pharmacotherapy'
- b) Why the combination of magnesium and aluminum salt are used as antacid?
- c) *Milk is contraindicated with tetracycline.* Justify.
- d) Name any two drugs used in Hodgkin's disease.
- e) Write any two drugs used in epilepsy?
- f) Write the uses of thyroxin hormone.
- g) Name any two immunosuppressants used as antirheumatoid drugs.
- h) Name any two drugs used for treatment of urinary tract infection?
- i) Justify the use of Carbidopa in combination with Levodopa.
- j) Define the term "Essential Drugs".

**Q2. Classify antihypertensive drugs with suitable examples. Name the antihypertensives found safer during pregnancy. (5+5)**

**Q3. Write short note on :**

- a) Management of Peptic ulcer. (5)
- b) Drugs used for treatment of Asthma. (5)

**Q4. Write short note on :**

- a) Therapeutic drug monitoring (5)
- b) Rational use of drugs. (5)

**Q5. Describe in detail about the drugs used for treatment of diabetes mellitus and their mechanism of action. (10)**

**Q6. Write short note on :**

- a) Management of tuberculosis. (5)
- b) Drugs used for treatment of anemia. (5)

**Q7. Define drug interaction. Describe various types of pharmacokinetic drug interaction with examples. (10)**

**Q8. Write short on :**

- a) Predictable/ type A adverse drug reaction. (5)
- b) Management of gout. (5)

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**B.PHARM**  
**PH 8.4**

**8<sup>th</sup> Semester Regular / Back Examination – 2017-18**

**Quality Assurance and GMP**

**Branch: B.Pharma**

**Time: 3 Hours**

**Max marks: 70**

**Q Code: C239**

**Answer Question No.1 which is compulsory and any five from the rest.**

**The figures in the right hand margin indicate marks.**

**Answer all parts of a question at a place.**

**Q1** **Answer the following questions : Short answer type :** **(2 x 10)**

- Define audit and classify it.
- What is schedule M? What are its elements and sub elements?
- Define quality policy?
- What do you mean by process validation and process optimization?
- What is equipment validation and what are its steps?
- Classify and signify the role of HVAC systems in environment control.
- What do you mean by master formula record? What should an ideal MFR contain?
- What do you mean by Mean Kinetic temperature? How does temperature influence stability of pharmaceutical products?
- Signify the role of DRA in regulating pharmaceutical product quality.
- Expand the terms ISO and ICH.

**Q2** **Write short notes on:**

- What is cleaning validation and Rinse samples? **(5)**
- Swab technique. **(5)**

**Q3** **Write about ideal requirements of warehouse for pharmaceutical products both RM and FP.** **(5)**  
**b) Terminal sterilisation and sterile filtered products** **(5)**

**Q4** **a) Retrospective validation.** **(5)**  
**b) Analytical validation.** **(5)**

**Q5** **a) Discuss briefly about functions of drug regulatory authority as per U.S.** **(5)**  
**b) Discuss briefly about DRA functionality as per Indian scenario.** **(5)**

**Q6**    **a)** Briefly write about product recall. **(5)**

b) Complaints handling is a vital process in any pharmaceutical industry. Justify. (5)

**Q7** Write a note on TQM along with its principles and rules. **(10)**

**Q8 Write short notes on Any Two: (5 X 2)**

a) SOP

**b) ISO**

**c) Good Manufacturing Practices**

d) Role of Quality Assurance in Pharmaceutical Industry.

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B.Pharm.  
PH.E.1

8<sup>th</sup> Semester Regular / Back Examination 2017-18

COSMETIC TECHNOLOGY

BRANCH : B.Pharma

Time : 3 Hours

Max Marks : 70

Q.CODE : C388

Answer Question No.1 which is compulsory and any five from the rest.  
The figures in the right hand margin indicate marks.

**Q1. Answer the following questions : (2 x 10)**

- Define 'Cosmetics'.
- What are 'Preservatives'? Give example.
- What are 'Humectants'? Give example.
- Write full form of (i) B.H.T. and (ii) B.H.A.
- What are 'Abrasives'? Give example.
- Name two film forming materials used in the preparation of nail polish.
- Mention two examples of perfumes derived from animal sources.
- Write two examples of cationic surfactants.
- Mention two natural dyes used as hair colorants.
- What is 'Half-head Technique'?

**Q2. a) Discuss about the anatomy and physiology of human skin. (5)**  
**b) Write in brief about the excipients used in shampoo preparation. (5)**

**Q3. a) Write about various raw materials used in nail polish preparation. (5)**  
**b) What are the evaluations of nail polish? (5)**

**Q4. a) Write about various raw materials used in lip-stick preparation. (5)**  
**b) What are the quality control tests for lip-sticks? (5)**

**Q5. a) Write about various raw materials used in dentifrices. (5)**  
**b) What are the quality control tests for tooth pastes? (5)**

**Q6. Write in details about various hair care products. (10)**

**Q7. a) Write in brief about environmental factors on stability of cosmetics. (5)**  
**b) What are the quality control tests for shaving creams? (5)**

**Q8 Write short notes on these followings any TWO : (5x2)**

- After-shave preparations
- Sun screen preparations
- Surfactants
- Colouring agents and perfumes