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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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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)**
- a) Define 'Cosmetics'.
  - b) What are 'Preservatives'? Give example.
  - c) What are 'Humectants'? Give example.
  - d) Write full form of (i) B.H.T. and (ii). B.H.A.
  - e) What are 'Abrasives'? Give example.
  - f) Name two film forming materials used in the preparation of nail polish.
  - g) Mention two examples of perfumes derived from animal sources.
  - h) Write two examples of cationic surfactants.
  - i) Mention two natural dyes used as hair colorants.
  - j) 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)**
- a) After-shave preparations
  - b) Sun screen preparations
  - c) Surfactants
  - d) Colouring agents and perfumes

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

HERBAL DRUG TECHNOLOGY

BRANCH : B.Pharma

Time : 3 Hours

Max Marks : 70

Q.CODE : C389

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

The figures in the right hand margin indicate marks.

- Q1. Short answer type :** (2 x 10)
- a) How Ayurvedic medicine is different from Herbal medicine?
  - b) Example of two herbs used as healing agents.
  - c) Uses of Brahmi.
  - d) What is nutraceuticals?
  - e) Name some herbal medicines against air borne infections.
  - f) What are the different analytical profiles for Brahmi?
  - g) What is Clinical trial? What is their importance?
  - h) Name two herbal medicines each for cold and diarrhea.
  - i) Uses of Omega-3 fatty acid.
  - j) Describe the mechanism of action of antioxidant.
- Q2.** a) Discuss in detail about herbal cosmetics. (5)  
b) Describe any two preparations of herbal cosmetics. (5)
- Q3.** Describe in detail about relative study of Herbal verses conventional drugs and safety profile of herbal drugs. (10)
- Q4.** How the Herbal drugs assessed for their quality as per WHO guidelines? Discuss in detail. (10)
- Q5.** Write down the analytical profiles of the following herbs :  
a) Aegle marmelos (5)  
b) Gymnema sylvestre (5)
- Q6.** Write down the different methods use for determination of :  
a) Tannins (5)  
b) Extractable matter (5)
- Q7.** Discuss on toxicity of Herbal drugs and Write some examples of their interactions. (10)
- Q8. Write the source, chemical constituents and uses of any TWO :** (5 x 2)  
a) Garlic  
b) Amla  
c) Ginkgo  
d) Neem

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

**PHARMACEUTICAL MANAGEMENT**

**BRANCH : B.Pharma**

**Time : 3 Hours**

**Max Marks : 70**

**Q.CODE : C288**

**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 : (2 x 10)**
- a) What is productivity?
  - b) What do you understand by the term lead time uncertainty in inventory control?
  - c) What are the qualities needed in an entrepreneur?
  - d) What is a trial balance and how it can be prepared?
  - e) What are the indirect channels of distributions?
  - f) State the concept of individual and group morale.
  - g) Briefly mention different types of insurances.
  - h) How should be the compensation of a pharmacist?
  - i) What are different store keeping functions?
  - j) Briefly describe the personal and vocational qualities of a salesman.
- Q2. Briefly describe the different leadership styles followed by managers. (10)**
- Q3. Explain the purchasing process followed by organizations. (10)**
- Q4. What is communication process? Explain with special reference to its types and barriers. (10)**
- Q5. Explain the law of demand and law of supply with their exceptions. (10)**
- Q6. 14 principles of management given by Henry Foyal are still valid. Justify with explanation as needed. (10)**
- Q7. What is a promissory note? Mention its parties, characteristics and advantages. (10)**
- Q8. Differentiate between (Any TWO) : (5 x 2)**
- a) Balance sheet
  - b) Import and export
  - c) Advertisement

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**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



- Q6**    a) Briefly write about product recall. **(5)**  
          b) Complaints handling is a vital process in any pharmaceutical industry. **(5)**  
              Justify.
- 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.