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7th Semester Regular/Back Examination 2017-18**Cosmetic Technology****BRANCH : B.Pharma.****Time: 3 Hours****Max Marks: 70****Q.CODE: B129****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)**
- What do you mean by Humectants?
 - Give two examples of non ionic surfactant used in shampoo.
 - What is sequestrants? Give one example.
 - What is the role of Tricresyl Phosphate in nail lacquer preparations?
 - What are brilliantines?
 - What are Rouges?
 - What is the composition of Hair Tonic?
 - Give two examples of natural dyes used in hair color preparations.
 - What is Exfoliant? Give one example of it.
 - Give an example of Secondary film forming resin present in nail polish.
- Q2 a) Define cosmetics as per FDA. Classify Cosmetics. (5)**
b) Write a short note about the composition of toothpowder with use of each ingredient. (5)
- Q3 a) What are the evaluation tests for shampoo? (5)**
b) What are the differences between Cold Cream and Vanishing Cream? What is pearlescent agent? Give a proper example. (2+2+1)
- Q4 a) Write brief notes on 'Pedicure' and 'Manicure' (5)**
b) What are the major causes of Dandruff? Give some examples of antidandruff agent used in shampoo? (5)
- Q5 a) Define:- (i) Compact Face Powder. (ii) Mascara (5)**
b) Mention the characteristics of an Ideal Cosmetic (5)
- Q6 a) What is Foundation Cream? Mention Characteristics of an ideal foundation cream. (3+2=5)**
b) Write about Cold Cream and Moisturizing Cream? (5)
- Q7 a) Differentiate between Lather Forming Shaving Cream and Brushless Shaving Cream. (5)**
b) Differentiate between Vanishing Cream and Foundation Cream. (5)
- Q8 Write short answer on any TWO : (5 x 2)**
- After shave Lotion
 - Hair Conditioner
 - Hair Cream

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**B. Pharma.
PH.E.3.**

**7th Semester Regular/ Back Examination 2017-18
Herbal Drug Technology**

BRANCH: B.Pharma

Time: 3 Hours

Max Marks: 70

Q CODE: B130

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

- Q1** a) Define the term 'Reverse Pharmacology'. **(2 x 10)**
b) How will you detect the presence of aflatoxin in the herbal product?
c) Write down the chemical tests for qualitative detection of tannins.
d) Define the term 'Phytotherapy'.
e) How will you detect the ash value?
f) What is foaming/saponification index?
g) Give examples of two plant species used as anti-diabetic agents.
h) Give two examples of unwanted interactions of herbal drugs.
i) What are the major concerns regarding the quality of crude herbs.
j) Write a brief note on GMP schedule T.
- Q2** a) Discuss WHO recommended monograph for quality control of herbal drugs. **(5)**
b) Write down the WHO recommendation for the upper limit of micro-organisms per gram of herbal material. **(5)**
- Q3** Write an explanatory note on the importance and limitation of herbal therapy over conventional therapy. **(10)**
- Q4** a) Discuss the method of detection of extractive values. **(5)**
b) How will you formulate and screen anti-diarrhoeal herbal products? **(5)**
- Q5** a) Write notes on herbs used in the treatment of cold and infections. **(5)**
b) Write an account on chromatographic fingerprinting analysis. **(5)**
- Q6** Discuss in detail about the analytical profiles of *Aradrographispaniculata* and *Gymnemasylvestre*. **(5x2)**
- Q7** a) Define herbal products. Write an account on the safety of herbal drugs. **(5)**
b) Discuss briefly the uses of herbs used in formulating cosmetic products. **(5)**
- Q8** Write an explanatory note on 'Herbs as health food'. **(10)**

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**B.Pharma.
PH.E.7**

7th Semester Regular/Back Examination 2017-18

Hospital Pharmacy Administration

BRANCH : B.Pharma.

Time: 3 Hours

Max Marks: 70

Q.CODE: B131

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 hospital pharmacy.
 - b) Describe about the hospital pharmacy personnel.
 - c) What do you mean by hospital formulary system?
 - d) Write the full form of AHFS, FDLS, ASHP.
 - e) What is non-charge floor stock drugs & charge floor stock drugs?
 - f) Define Shelf stripping.
 - g) Describe briefly about in-patient and out patient.
 - h) What is envelop system?
 - i) What is parental hyperalimentation?
 - j) Describe about intravenous additive program.
- Q2 a) What are the various drug distribution systems for in-patients? (5)**
b) Describe pre-packing of drugs in hospital pharmacy. (5)
- Q3 a) Write a note on organization of hospital pharmacy. (5)**
b) What are the advantages and disadvantages of hospital formulary system? (5)
- Q4 a) Briefly discuss about the manufacturing of IV additive solutions. (5)**
b) Illustrate the term P.T.C (Pharmacy & Therapeutic Committee) (5)
- Q5 a) Mention the objectives and functions of hospital pharmacy. (5)**
b) Write about the dispensing routine to ambulatory patients. (5)
- Q6 a) What is infection control committee and what are the role of this committee in hospital pharmacy. (5)**
b) Describe about ICU and ICCU. What are the roles of clinical pharmacist in the ICU? (5)
- Q7 Discuss briefly about hospital committees and their roles. (10)**
- Q8 Write short answer on any TWO : (5 x 2)**
- a) Drug Basket method
 - b) Goals for Hospital Pharmacy
 - c) Current practice committee

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B.Pharm
PH.7.4

7th Semester Regular / Back Examination 2017-18

Pharma Analysis-III

BRANCH B.Pharma.

Time: 3 Hours

Max Marks: 70

QUESTION CODE: B127

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) What is chemical shift? Mention the various factors affecting chemical shift.
 - b) Write the various types of degassing techniques used in HPLC.
 - c) Write down the working principle of PMT.
 - d) What is the range of R_f value? How it is helpful in drug analysis.
 - e) How Qualitative and Quantitative analysis performed by GC.
 - f) What are Parent and Base peak and its significance?
 - g) Write down the number of Fundamental mode of vibrations associated for Linear and Non-linear molecules in IR spectroscopy.
 - h) What is Vacuum UV-region? Write down the different electronic transitions involved in UV-Spectroscopy analysis.
 - i) Differentiate between TLC and HPTLC. Which one is superior and why?
 - j) What is self and chemical Quenching in Fluorimetry?
- Q2**
- a) Describe the theory and principle of IR-spectroscopy. (5)
 - b) Write down the different sample preparation techniques used in IR-analysis. (5)
- Q3**
- a) Write down the principle of EIMS. (5)
 - b) What are the different ions produced by MS during ionization? (5)
- Q4**
- a) Explain the principle of NMR spectroscopy. What is Shielding and Deshielding proton? (2+3)
 - b) Write a short note on structural elucidation of a compound by NMR. (5)
- Q5** Describe the principle and different steps involved in TLC method. Write a short note on applications of TLC. (10)
- Q6** Outline the various types of HPLC technique. Describe the Instrumentation and applications of HPLC. (10)
- Q7**
- a) Principle of UV-spectroscopy. (5)
 - b) HPTLC (5)
- Q8** Write down the principle, Instrumentation and applications of Flame Photometry. (10)

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B.Pharm
PH.7.6

7th Semester Regular/Back Examination 2017-18

Pharma Biotechnology

BRANCH: B.Pharma.

Time: 3 Hour

Max Marks: 70

Q.CODE: B128

**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) What is haptens with example?
 - b) Define epitopes.
 - c) What do you mean by gene cloning?
 - d) Define Antigen and classify it.
 - e) What do mean by Microbial Transformation.
 - f) Define immunity, active immunity and passive immunity.
 - g) What is biotransformation process?
 - h) Write the application of PCR.
 - i) Difference between cellular and humoral immunity.
 - j) What do you mean by antibiotics with suitable example?
- Q2 a) Define Immunology. "All immunogenes are antigen but all antigens are not immunogen" explain it with reason. (5)**
- b) Write about short note on different immunoglobulin. (5)**
- Q3 a) What are the mechanism of type-II Hypersensitivity. (5)**
- b) Write the process of Humulin synthesis by rDNA technology. (5)**
- Q4 a) Why Taq polymerase used in PCR. (5)**
- b) Schematically describe the fermentation process. (5)**
- Q5 a) Describe the development of monoclonal antibodies by Hybridoma technology. (5)**
- b) How to regulation of gene expression describe by Lac Operone? (5)**
- Q6 a) What is Enzyme immobilization? Describe the different Techniques of enzymes immobilization? (5)**
- b) What are the ideal requirements of PVP and Dextran for control of blood pressure as per I.P. (5)**
- Q7 what is Genetic Code? Describe the details about components of protein synthesis and inhibitor of protein synthesis. (10)**
- Q8 Write short notes on : (Any TWO) (5x2)**
- a) Hyaluronidase
 - b) Streptokinase
 - c) Major histocompatibilty
 - d) Proteases

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B.Pharma.
PH.7.2

7th Semester Regular/Back Examination 2017-18

Pharmacology-III

BRANCH: B.Pharma

Time: 3 Hours

Max Marks: 70

Q. Code: B125

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 with one example for each. (2X10)**
- a) Define Laxatives and Carminatives.
 - b) What do you understand by Antacids and Anti-secretory?
 - c) What do you mean by Anorectics and Anti-emetics?
 - d) Discuss the terms Mucolytics and Astringents.
 - e) Explain Endocrine and Exocrine Hormones.
 - f) What are Antibacterials and Antibiotics?
 - g) What are Bacteriostatic and Bacteriocidal agents?
 - h) Explain the term 'Antimetabolites'
 - i) Explain the term 'Heavy metals'.
 - j) What are Beta-lactum antibiotics?
- Q2. a) Write about the mode of action of Macrolide antibiotics with examples. (5)**
- b) Mentioning the control of Thyroid hormones in our body, discuss about the inter-relation between Hypothalamus and Pituitary. (5)**
- Q3. a) Discuss about the mode of action of Tetracyclines and its drawback. (5)**
- b) Justify the use of Trimethoprim in Sulphonamide therapy. (5)**
- Q4. a) Define with examples – Poison, Drug-ADR and Drug-Side Effects. (5)**
- b) Write down the drug regime as per recommendation of WHO guidelines for Multi Drug Resistant Tuberculosis. (5)**
- Q5. a) Write a brief note on physiological manifestation and remedy for any two relevant Heavy Metal poisoning. (5)**
- b) Write a short note on the pharmacology of Vit – D. (5)**
- Q6. a) Mention about the clinically important adverse effects of Chloramphenicol and Aminoglycosides. (5)**
- b) Briefly highlight about the general principles for treatment against Barbiturate and Atropine poisoning. (5)**
- Q7. Write down with examples the Pharmacological classification of Anti-neoplastic drugs and Immunosuppressant agent. (10)**
- Q8. Attempt any TWO : (5X2)**
- a) Write down the antimalarial action of Quinine along with its side effects.
 - b) Write down the antifungal action of Amphotericin B and its drawback.
 - c) How Acyclovir manages Herpes infection.