

# Question Paper

Exam Date & Time: 27-Nov-2017 (09:30 AM - 12:30 PM)



## MANIPAL UNIVERSITY

### MANIPAL COLLEGE OF PHARMACEUTICAL SCIENCES END SEMESTER THEORY EXAMINATIONS- NOVEMBER 2017

PROGRAM: BPHARM SEMESTER 1

DATE: 27/11/2017

TIME: 9:30AM - 12:30PM

Pharmaceutics-I [PCE-BP103T]

Marks: 75

Duration: 180 mins.

#### I Multiple Choice Questions (MCQs)

Answer all the questions.

Section Duration: 30 mins

- 1) Name the phenomenon in which the water-solubility of a drug is enhanced by the addition of a large quantity of a second solute. (1)  
Micellar solubilisation Hydrotrophy Cosolvency Chemical modification
- 2) Which is the national regulatory body for pharmaceuticals and medicines in India? (1)  
Central Drugs Standard Control Organization Medicines and Healthcare Products Regulatory Agency World Health Organization Indian Medicines Agency
- 3) In what proportions should ichthammol ointment strengths of 70% and 40% be mixed to prepare 50% ichthammol ointment? (1)  
10 parts of 70% & 20 parts of 40% 20 parts of 70% & 10 parts of 40% 30 parts of 50% & 10 parts of 70% 10 parts of 50% & 30 parts of 70%
- 4) Which of these liquids is meant for internal use? (1)  
Liniments Douches Syrups Lotions
- 5) A powder, all particles of which pass through sieve no. 85 and not more than 40% by weight pass through sieve no. 120 is known as (1)  
Coarse powder Microfine powder Superfine powder Fine powder
- 6) Complexes of drugs with cyclodextrins are \_\_\_\_\_ complexes. (1)  
Inclusion Exclusion Coprecipitated Coexclusion
- 7) Nasal suppositories are prepared using (1)  
Cocoa butter Glycerogelatin base Palm kernel oil Carbowaxes
- 8) Which of these is a synthetic hydrocolloid? (1)  
Acacia Bentonite Carbopol Gelatin
- 9) The incompatibility of quinine sulphate with potassium iodide and sulphuric acid is known as (1)  
Hypertensive reaction Hypotensive reaction Allergic reaction Herapathic reaction
- 10) Which of these DO NOT come under the category of stabilizers in liquid dosage forms? (1)  
Antioxidants Sweetening agents Buffers Preservatives
- 11) Bougies are meant for insertion into (1)  
Ear Vagina Rectum Urethra
- 12) \_\_\_\_\_ contains one water molecule that acts as binder in fusion method for preparation of effervescent granules. (1)  
Sodium bicarbonate Tartaric Acid Citric Acid Sodium phosphate
- 13) What is the full form of BPC, the supplement to the British Pharmacopoeia? (1)  
British British British

Pharmaceutical  
Codex

Pharmacy  
Council

Pharmacopoeial  
Codex

British Pharmacy  
Commission

- 14) Incompatibility solved by addition or substitution of one ingredient in the prescription with another of equal therapeutic value is called as \_\_\_\_\_ (1)  
Tolerated Adjusted Drug related Primary
- 15) A phenomenon of emulsion instability, characterized by accumulation of droplets either at the top or the bottom of the emulsion is known as \_\_\_\_\_. (1)  
Flocculation Creaming Coalescence Phase inversion
- 16) Lubrication of suppository mold is not required for which of the following base? (1)  
Theobroma oil Glycerogelatin base Witepsol Macroqol bases
- 17) One teaspoonful equals \_\_\_\_\_ (1)  
5ml 0.5ml 10ml 1ml
- 18) Identify the magma from the following: (1)  
Two-phase gels Three-phase emulsions Single phase gels Four-phase emulsions
- 19) The concentration of sodium chloride required to make 1% w/v solution of boric acid iso-osmotic with blood plasma (F.P of 1% w/v boric acid =  $-0.288^{\circ}\text{C}$  and F.P of 1% w/v sodium chloride =  $-0.576^{\circ}\text{C}$ ) (1)  
1.402% w/v 0.402% w/v 0.194% w/v 0.553% w/v
- 20) The part of the prescription that gives directions to be given to the patient regarding the administration of the drug constitute the \_\_\_\_\_. (1)  
Subscription Superscription Inscription Signatura

### II Long Answers

Answer all the questions.

- 1) Define the term 'posology'. Explain the factors influencing dose selection with examples. (10)
- 2) Describe five tests for the detection of type of emulsion (5)
- A)
- B) Define elixirs. Write the advantages and disadvantages of elixirs over syrups. Write the composition and preparation of any one elixir formulation (5)

### III Short Answers

Answer all the questions.

- 1) Define semisolids. Classify ointment bases into different types and describe each class with one example each. (5)
- 2) Define powders. Write a note on dispensing of eutectic powders and efflorescent powders. (5)
- 3) Define the term 'flocculation' with respect to pharmaceutical suspensions. Explain the formulation of flocculated suspensions. (5)
- 4) What is incompatibility? Explain the different types of therapeutic incompatibilities with examples. (5)
- 5) List the classes of excipients used in liquid dosage forms. Write a detailed note on vehicles. (5)
- 6) a) You are required to prepare and dispense six vaginal pessaries, each containing 500 mg clotrimazole and weighing 4 g. What will be the amounts of suppository base and clotrimazole that will be required for formulation of these pessaries? The displacement value of clotrimazole is 1.5. (5)  
b) Write a note on emulsifying bases as suppository bases.