

ER 20-11 T

Roll No. of candidate

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23/08/22

RINA CHOWDHURY CENTRAL LIBRARY
(GIMT & GIPS)
Azad Halki Wapara,
Wahab, 2017

2022

D.Pharm. Part-I End-Term Examination
PHARMACEUTICS - I - THEORY

Full Marks – 80

Time – Three hours

The figures in the margin indicate full marks for the questions.

1. Objective type questions (Answer all questions) : (20 × 1 = 20)
- (i) The supplement to second edition of the Pharmacopoeia of India was Published in
- (a) 1981 (b) 1975
(c) 1985 (d) 1966
- (ii) The government of India, Ministry of Health and Family Welfare, constituted the Indian Pharmacopoeia Commission (IPC) on _____.
- (a) 22nd March, 2005 (b) 22nd March, 2008
(c) 23rd April, 2005 (d) None of the above
- (iii) _____ are used for storage of photosensitive Pharmaceutical products.
- (iv) _____ is used as a sweetening agent.
- (v) Size reduction is done by _____ in pestle and mortar
- (a) Compression (b) Impact
(c) Attrition (d) All of the above
- (vi) Fluid energy mill reduces the particles to _____ to _____ micron.
- (vii) _____ are used to separate the suspension of a solid in a gas (air).

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- (viii) Define the term "elutriation".
- (ix) Surface tension is expressed in _____
- (a) Dynes/cm (b) m/cm²
(c) Dynes/m (d) Dynes/cm²
- (x) The rate of filtration is _____ proportional to the viscosity of the liquid.
- (xi) Define the term "extraction".
- (xii) What is "freeze drying"?
- (xiii) The enteric coated tablets are disintegrated in the _____
- (a) Intestine (b) Stomach
(c) Lung (d) All of the above
- (xiv) Define the term "Angle of repose".
- (xv) Which of the following is an external liquid preparation?
- (a) Liniments
(b) Elixirs
(c) Linctuses
(d) Syrup
- (xvi) In cyclone separator, the powder is separated depending on its
- (a) Particle size
(b) Density of particles
(c) Particles size and density of particles
(d) Shape of the powder
- (xvii) Glass wares are sterilized by _____ method.
- (a) Moist heat sterilization
(b) Dry heat sterilization
(c) Radiation sterilization
(d) Gaseous sterilization
- (xviii) Effervescent granules are solid dosage form of medicament used for
- (a) External use
(b) Internal use
(c) Both of the above
(d) None of the above
- (xix) Define the term "Prodrugs".
- (xx) Name the vaccines prepared from virus.

2. Short answer type question (answer any ten) (10 × 3 = 30)
- (a) Define the term "Pharmacopoeia". Enlist the various pharmacopoeias used in India.
 - (b) Briefly explain the advantages and disadvantages of plastic containers.
 - (c) Write short notes on preservatives.
 - (d) Write in short about the importance of particle size reduction in pharmacy.
 - (e) Discuss in brief about sieves.
 - (f) Write in brief about membrane filter.
 - (g) Explain the theory about fluidised bed dryer.
 - (h) Write in brief about modified percolation process.
 - (i) Name the various manufacturing defects in tablets.
 - (j) Mention the qualities of an ideal ointment base.
 - (k) Write a note on current good manufacturing practice (cGMP).

3. Long answer type questions (answer any six) (6 × 5 = 30)
- (a) What are rectal capsules? Differentiate between hard gelatin capsule and soft gelatin capsule. (1+4=5)
 - (b) Explain in brief the various types of excipients, which are generally required in the formulation of tablets. (5)
 - (c) Define the "filtration". What are the factors, which affect the rate of filtration? Write in brief about "Sintered glass filter". (1+2+2=5)
 - (d) Write the principle, construction, working and use of the "Ball Mill". (5)
 - (e) Define "creams". Write in brief about creams. (1+4=5)
 - (f) What are "Monophasic liquid dosage forms"? Write short notes on syrups and elixirs. (2+3=5)
 - (g) What are the equipment used for mixing of liquids? Write in detail about "Silverson mixer Homogenizer". (2+3=5)