

August 2023

PHARMACEUTICS -I

Full Marks: 80

Time: 3hr

1A Write down the correct one. (Any ten)**1X10=10**

- i) Eighth edition Indian Pharmacopocia was Published on- a)2017, b)2018,c)2019,d)2020
- ii) Nylon is Polymer of...a) Phosphate, b) amide, c) Vinyl, d) Ethylene.
- iii) Source Amaranth is color is- a) Natural , b) Semi synthetic , c) Synthetic ,d) both a & b.
- iv) Ball Mill operated in the range of Critical speed- a) 20-30%, b)30-40%, c)50-70%, d)Above 70%.
- v) In RO Filter following filter use- a) Membrane filter b) Sediment filter c) Carbon filter, d)All a,b,c.
- vi) Example of Freeze Dried product is- a) Milk powder b) Coffee powder c) Vaccine d) All a,b,c.
- vii) Example of Infusion extract is- a)Morning tea,b)Morning coffee,c) Starch of Boiled rice,d)All a,b,c.
- viii) Example of Direct Compressed Tablet is- a) Aspirin b) Paracetamol, c) Antacid d)Metronidazole.
- ix) Vanishing Cream is Emulsion of - a) O/W, b) W/O, c) W/O/W, d) O/W/O.
- x) Corona Vaccine is preparation of - a) suspension, b) Emulsion, c) Solution, d) Lotion.
- xi) Respule is Dosage form of- a) Liquid, b) Semisolid, c) Gaseous, d) All a,b,c.
- xii) Sterile mean absolute free from all types of- a) Bacteria, b) Virus, c) Fungi, d) Microbes.

1B Fill the blanks OR Answer in one sentence. (Any ten)**1X10=10**

- i) Father of Indian Pharmacy name is _____.
- ii) Another name of Type-II Glass is _____.
- iii) Full form of ABS Plastic is _____.
- iv) Example of Natural Coloring agents are _____.
- v) BCG Vaccine is Dried at _____ machine.
- vi) Example of Negative mixture is _____.
- vii) Syrup can be prepared from non sucrose sugar like _____.
- viii) Sieve no. 10 mean?

ix) Very fine powder related with sieve No _____.

x) Define powder?

xi) Define primary Emulsion?

2. Answer any 10 (Ten) questions from the following:

3x10=30

- i. Classify dosage forms with examples
- ii. Discuss the objectives of Size reduction.
- iii. Classify powders based on powder size.
- iv. Discuss the mechanisms of mixing.
- v. Discuss the ideal properties of packaging materials.
- vi. Discuss the official tests for assay of tablets
- vii. Write an explanatory note on tablet coating.
- viii. Discuss the manufacturing defects in tablets?
- ix. Briefly discuss the excipients used in capsule manufacturing.
- x. What do you mean by sterile dosage form? Discuss the ideal properties of sterile preparations.
- xi. Discuss the principles of good manufacturing practices.
- xii. What do you mean by NDDS? Why do we need NDDS?

3. Answer any 6 (Six) questions from the following.

5x6=30

- a) Define Ointment. Discuss the method (any one) of preparation of ointment. 1+4
- b) Define emulsion. Explain the role of Emulsifying agents, preservatives & antioxidants with examples in emulsion preparation. 1+4
- c) Discuss the factors affecting the rate of filtration. Name any two filter media used in Laboratory 4+1
- d) Define Extraction. Briefly discuss..... a) Maceration, b) Percolation. 1+2+2
- e) Discuss in details the tablet manufacturing processes by granulation methods. 5
- f) What do you mean by QC & QA? Differentiate between QC & QA. 2+3
- g) Write about contents of IP. 5