

**MANIPAL ACADEMY OF HIGHER EDUCATION**

**END SEM THEORY EXAMINATION (Make-up), January 2023, 9.00 am to 12.00 noon, 18.01.2023**

**INDUSTRIAL PHARMACY I (PCE-BP502T)**

**Marks: 75**

<b>I Multiple Choice Questions (MCQs)</b>		<b>Answer all questions</b>	<b>20 marks</b>	
1	With respect to pKa determination, _____ are dependent on pH values; a) Strong bases b) Weak acids c) Weak bases d) Strong acids		1 mark	
2	Crystal shapes are of _____ types. a) Three b) Two c) Four d) Five		1 mark	
3	Ranitidine is an example for _____ a) BCS Class III b) BCS Class II c) BCS Class IV d) BCS Class I		1 mark	
4	_____ flow is characterized by dead spaces during discharge in hopper, which may lead to weight variation of tablets. a) Mass b) Gravity c) Core d) Forced		1 mark	
5	A reasonably wide pH range can be tolerated, particularly when dosing is via; a) IM route b) IV route c) SC route d) IM & SC routes		1 mark	
6	Hydrolysis can be protected by using _____ a) Buffers b) Surfactants c) Preservatives d) Antioxidants		1 mark	
7	One of the following products undergo polymerization. a) Diclofenac sodium injection b) Paracetamol tablets c) Salbutamol syrup d) Adrenaline solution		1 mark	
8	B form of _____ drug is more bioavailable. a) Ibuprofen b) Cetirizine c) Vitamin D d) Chloramphenicol		1 mark	

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9	The optimum volume to deliver eye drop via ocular route is, a) 6-10 $\mu$ l b) 15-20 $\mu$ l c) 5-10 $\mu$ l d) 12 - 15 $\mu$ l	1 mark	
10	A tablet defect related to poor flow leads to; a) Capping b) Sticking c) Weight variation d) Lamination	1 mark	
11	Which of the following is NOT TRUE for wet granulation? a) Improves flow b) Less time c) Requires large space d) Unsuitable for moisture sensitive drugs	1 mark	
12	Bloom strength, A measure of cohesive strength of gelatin ideally for capsule should be; a) 150-280 b) 100-200 c) 80-120 d) 120-150	1 mark	
13	Which one of the following test is not carried out for Capsules- a) Disintegration b) Dissolution c) Weight variation d) Friability	1 mark	
14	The role of ammonia in hair dye is; a) To impart gloss b) To improve texture c) To enable cuticle to swell d) All of the above	1 mark	
15	Buccal tablets are prepared for drugs that: a) Get decomposed in gastric environment b) Produce nausea on swallowing c) Undergo first pass metabolism d) All of the above	1 mark	

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16	Di basic Calcium Phosphate is _____. a) Organic diluent b) Inorganic diluent c) Organic binder d) Inorganic binder	1 mark	
17	In friability test, the friabilator is rotated for _____ number of rotations. a) 25 b) 50 c) 75 d) 100	1 mark	
18	Which one is a semi-automatic method of capsule filling? a) Auger fill method b) Mechanical vibration fill method c) Dosator method d) Compression filling method	1 mark	
19	Which of the following tests for aerosols is related to particle size. a) Flash point b) Flame projection c) Cascade impactor d) Foam stability	1 mark	
20	Which of the following is a compressed gas? a) Nitrogen b) Propane c) Butane d) Isobutane	1 mark	
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**II Long Answers (Answer all the questions)**

**2 Q × 10 marks = 20 marks**

- 1 Define sterilization. Briefly discuss the sterilization by Moist heat and Filtration techniques. (2+8) 10 marks
- 2 Write about the excipients used in tablet formulation along with their role and examples. 10 marks

**III Short Answers (Answer all the questions)**

**7 Q × 5 marks = 35 marks**

- 1 What is the importance of Angle of repose in solid dosage forms? Give the procedure to find out Angle of repose for a given sample. (2+3) 5 marks
- 2 With the help of a formula, explain the procedure to manufacture vanishing creams. (2+3) 5 marks
- 3 Enlist any five important functions of packaging in pharmaceuticals. 5 marks
- 4 List the components of soft gelatin capsule. Write the differences between hard gelatin capsule and soft gelatin capsule. 5 marks
- 5 Explain the parts of an aerosol valve system. 5 marks
- 6 Write the components of lipstick along with the role of each ingredient. 5 marks
- 7 Write about the filling of capsules using semi-automatic capsule filling machine. 5 marks