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National Testing Agency

Question Paper Name :	Industrial Pharmacy I 25th March 2021 Shift 2
Subject Name :	Industrial Pharmacy I
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Display Marks:	Yes

Industrial Pharmacy I

Group Number :	1
Group Id :	512452165
Group Maximum Duration :	0
Group Minimum Duration :	120
Show Attended Group? :	No
Edit Attended Group? :	No
Break time :	0
Group Marks :	100
Is this Group for Examiner? :	No

Industrial Pharmacy I-1

Section Id :	512452817
Section Number :	1
Section type :	Online
Mandatory or Optional :	Mandatory
Number of Questions :	20

Number of Questions to be attempted :	20
Section Marks :	20
Mark As Answered Required? :	Yes
Sub-Section Number :	1
Sub-Section Id :	512452857
Question Shuffling Allowed :	Yes

**Question Number : 1 Question Id : 51245214300 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No
Correct Marks : 1 Wrong Marks : 0**

X ray diffraction pattern indicate

1. Solubility
2. Crystallinity
3. Functional groups
4. Permeability

Options :

- 51245245061. 1
- 51245245062. 2
- 51245245063. 3
- 51245245064. 4

**Question Number : 2 Question Id : 51245214301 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No
Correct Marks : 1 Wrong Marks : 0**

Non superimposable mirror images are

1. Enantiomers
2. Monotropes
3. Polymorphs
4. All of the above

Options :

- 51245245065. 1
- 51245245066. 2

51245245067. 3

51245245068. 4

Question Number : 3 Question Id : 51245214302 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

Polymer used for enteric coating is

1. Sodium Alginate
2. Starch
3. Cellulose acetate pthallate
4. PVP

Options :

51245245069. 1

51245245070. 2

51245245071. 3

51245245072. 4

Question Number : 4 Question Id : 51245214303 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

No disintegrant is included in the composition of

1. Conventional tablets
2. Chewable tablets
3. SR tablet
4. Both 2 and 3

Options :

51245245073. 1

51245245074. 2

51245245075. 3

51245245076. 4

Question Number : 5 Question Id : 51245214304 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

Paddle over disc is USP dissolution apparatus of which type?

1. Type I
2. Type II
3. Type IV
4. Type V

Options :

- 51245245077. 1
- 51245245078. 2
- 51245245079. 3
- 51245245080. 4

Question Number : 6 Question Id : 51245214305 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

Higuchi plot is the curve of

1. % CDR V/S Time
2. Log % Drug remaining V/S Time
3. Log % CDR V/S Log Time
4. % CDR V/S square root of time

Options :

- 51245245081. 1
- 51245245082. 2
- 51245245083. 3
- 51245245084. 4

Question Number : 7 Question Id : 51245214306 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

When emulsion is diluted with a water soluble dye (such as amaranth) and the continuous phase appears red, it indicates

1. O/W Emulsion
2. W/O Emulsion
3. Both 1 and 2
4. None of the above

Options :

- 51245245085. 1
- 51245245086. 2
- 51245245087. 3
- 51245245088. 4

Question Number : 8 Question Id : 51245214307 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

What is the concentration of sugar used in simple syrup as per USP?

1. 85% w/w
2. 45% w/w
3. 62% w/w
4. None of the above

Options :

- 51245245089. 1
- 51245245090. 2
- 51245245091. 3
- 51245245092. 4

Question Number : 9 Question Id : 51245214308 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

Adjacent rooms of different grades should have a pressure differential of approximately

1. 10–15 pascals
2. 20-25 pascals
3. 10-22 pascals
4. 30-40 pascals

Options :

- 51245245093. 1
- 51245245094. 2
- 51245245095. 3
- 51245245096. 4

Question Number : 10 Question Id : 51245214309 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

Most commonly accepted parenteral formulation is

1. Solution type
2. Suspension type
3. Both 1 and 2
4. None of the above

Options :

- 51245245097. 1
- 51245245098. 2
- 51245245099. 3
- 51245245100. 4

Question Number : 11 Question Id : 51245214310 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

Propofol and oil soluble vitamins are examples of

1. Parenteral suspension
2. Parenteral emulsion
3. Parenteral solution
4. All of the above

Options :

- 51245245101. 1
- 51245245102. 2
- 51245245103. 3
- 51245245104. 4

Question Number : 12 Question Id : 51245214311 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

pKa for basic drug ranges from

1. 3-7.5
2. 5-8.5
3. 7-11
4. 11-13

Options :

- 51245245105. 1
- 51245245106. 2
- 51245245107. 3
- 51245245108. 4

Question Number : 13 Question Id : 51245214312 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

Ethylene oxide is most commonly used for

1. Gas sterilization
2. Moist heat sterilization
3. Dry heat sterilization
4. None of the above

Options :

- 51245245109. 1
- 51245245110. 2
- 51245245111. 3
- 51245245112. 4

Question Number : 14 Question Id : 51245214313 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

LAL reagent is isolated from

1. Androtoxins
2. Gram -ve bacteria
3. Gram +ve bacteria
4. Horseshoe crab

Options :

- 51245245113. 1
- 51245245114. 2
- 51245245115. 3
- 51245245116. 4

Question Number : 15 Question Id : 51245214314 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

In case of softgel capsules, the gel strength of gelatin should be in the range of

1. 12-80 bloom
2. 1500-2000 bloom
3. 1.5-8 bloom
4. 150-200 bloom

Options :

- 51245245117. 1
- 51245245118. 2
- 51245245119. 3
- 51245245120. 4

Question Number : 16 Question Id : 51245214315 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

Ribbon system in softgel filling equipment could be of

1. Pneumatic type
2. Electronic type
3. Both 1 and 2
4. None of the above

Options :

- 51245245121. 1
- 51245245122. 2
- 51245245123. 3
- 51245245124. 4

Question Number : 17 Question Id : 51245214316 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

Which one of the following is not a pelletization process?

1. Spray drying/congealing
2. Melt spheronization
3. Fluidised granulation
4. Extrusion–spheronization

Options :

- 51245245125. 1
- 51245245126. 2
- 51245245127. 3
- 51245245128. 4

Question Number : 18 Question Id : 51245214317 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

Aerosol made up of uncoated glass can withstand pressure upto

1. 18 psig
2. 25 psig
3. 140 psig
4. 180 psig

Options :

- 51245245129. 1
- 51245245130. 2
- 51245245131. 3
- 51245245132. 4

Question Number : 19 Question Id : 51245214318 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

Hydroquinones are used as a

1. Preservative
2. Buffer
3. Bleaching agent
4. None of the above

Options :

- 51245245133. 1
- 51245245134. 2
- 51245245135. 3
- 51245245136. 4

Question Number : 20 Question Id : 51245214319 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

Alkali leaching from glass is assessed by

1. Water attack test
2. Water vapor permeability
3. Arsenic limit test
4. Light transmission test

Options :

- 51245245137. 1
- 51245245138. 2
- 51245245139. 3
- 51245245140. 4

Industrial Pharmacy I-2

Section Id :

512452818

Section Number :

2

Section type :	Offline
Mandatory or Optional :	Mandatory
Number of Questions :	10
Number of Questions to be attempted :	10
Section Marks :	30
Mark As Answered Required? :	Yes
Sub-Section Number :	1
Sub-Section Id :	512452858
Question Shuffling Allowed :	No

Question Number : 21 Question Id : 51245214320 Question Type : SUBJECTIVE

Correct Marks : 3

Explain briefly solubility and partition coefficient.

Question Number : 22 Question Id : 51245214321 Question Type : SUBJECTIVE

Correct Marks : 3

What are Aerosols? Give its advantages and disadvantages.

Question Number : 23 Question Id : 51245214322 Question Type : SUBJECTIVE

Correct Marks : 3

What is polymorphism? Give two examples of polymorphism.

Question Number : 24 Question Id : 51245214323 Question Type : SUBJECTIVE

Correct Marks : 3

Give the difference between flocculated and deflocculated suspensions.

Question Number : 25 Question Id : 51245214324 Question Type : SUBJECTIVE
Correct Marks : 3

List the steps involved in the production of hard gelatin capsules.

Question Number : 26 Question Id : 51245214325 Question Type : SUBJECTIVE
Correct Marks : 3

Define pellets and list the pelletization techniques.

Question Number : 27 Question Id : 51245214326 Question Type : SUBJECTIVE
Correct Marks : 3

Give the concept of the pyrogen test.

Question Number : 28 Question Id : 51245214327 Question Type : SUBJECTIVE
Correct Marks : 3

Explain the formulation of eye drops as flow diagram.

Question Number : 29 Question Id : 51245214328 Question Type : SUBJECTIVE
Correct Marks : 3

List the methods of evaluation of pharmaceutical aerosols.

Question Number : 30 Question Id : 51245214329 Question Type : SUBJECTIVE
Correct Marks : 3

Give the basic concept of powdered glass test.

Industrial Pharmacy I-3

Section Id :	512452819
Section Number :	3
Section type :	Offline
Mandatory or Optional :	Mandatory
Number of Questions :	7
Number of Questions to be attempted :	5
Section Marks :	50
Mark As Answered Required? :	Yes
Sub-Section Number :	1
Sub-Section Id :	512452859
Question Shuffling Allowed :	No

Question Number : 31 Question Id : 51245214330 Question Type : SUBJECTIVE

Correct Marks : 10

Explain in detail, additives of capsule dosage form. Give its limitation and uses/applications.

Question Number : 32 Question Id : 51245214331 Question Type : SUBJECTIVE

Correct Marks : 10

What is pre-formulation? Briefly discuss any four pre-formulation parameters.

Question Number : 33 Question Id : 51245214332 Question Type : SUBJECTIVE

Correct Marks : 10

Explain the method of preparation of cold cream and vanishing cream.

Question Number : 34 Question Id : 51245214333 Question Type : SUBJECTIVE

Correct Marks : 10

Define tablet coating & classify types of coating. Add a note on sugar coating in detail.

Question Number : 35 Question Id : 51245214334 Question Type : SUBJECTIVE

Correct Marks : 10

Write a note on wet granulation.

Question Number : 36 Question Id : 51245214335 Question Type : SUBJECTIVE

Correct Marks : 10

Write a note on Bacterial Endotoxin Test for parenterals.

Question Number : 37 Question Id : 51245214336 Question Type : SUBJECTIVE

Correct Marks : 10

Write a note on the theory of suspension.