Exam Date & Time: 03-Dec-2022 (10:00 AM - 01:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

	Industrial Pharmacy II [PCE-BP702T - S3]	
Marks: 75	Duration: 180 m	nins.
	I Multiple Choice Questions (MCQs)	
Answer all t	the questions. Section Duration: 30	mins
1)	Which of these is not applicable to scale-up of fluid bed granulation operation?	
	1) Atomization air pressure 2) Spray rate 3) Air volume 4) Roller speed	(1)
2)	ASMF refers to:	
	Active Specification Manufacturing Formula Active Substance Master File Active Substance Manufacturing Formula Active Substance Manufacturing Formula Active Substance Manufacturing File	(1)
3)	Which of these is the goal of an NDA?	
	To approve the marketing strategy of a new drug To approve the marketing strategy of a new drug To determine the safety and 3) effectiveness of a new drug for its proposed use	(1)
4)	In the context of drug regulatory affairs, MAA refers to	
	Marketing Marketing Marketing Approval Application Applicati	(1)
5)	A process is said to be validated when the product	
	Falls within release specification specification specification specification falls outside release specification specification specification falls within release specification falls within re	1)
	The vehicle through which drug sponsors formally propose that the FDA approve a new pharmaceutical for sale and marketing in the U.S is:	1)
	1) NDA 2) INDA 3) ANDA 4) IB	.,
7)	DMF is prepared by	
	1) API 2) API 3) Regulatory agency 4) Regulatory reviewer	1)

8)	Changes to approved NDA can occur due to:
	Revised 1) market 2) Qualification 3) Optimization of manufacturing process 4) the above (1)
9)	Medicines Control Council is the regulatory agency for:
	1) India 2) Canada 3) Brazil 4) South Africa (1
10)	CEP - certificate that proves that a substance qualifies to the relevant monographs of the
	1) European Pharmacopoeia 2) Japan Pharmacopoeia 3) US Pharmacopoeia 4) Australia Pharmacopoeia (1)
11)	Generally, reporting head for scale-up studies
	R&D head or Formulator who developed product R&D head or Formulator who developed product 2) QC department 3) Management 4) None of the above (1)
12)	CDSCO is related to
	Technology Transfer 2) Production 3) Regulatory requirements 4) Quality-by-design (1)
13)	Pharmacovigilance is a part of
	1) ICH E1 guidelines 2) ICH E3 guidelines 3) ICH E2 guidelines 4) F) guidelines (1)
14)	The basic principle of ISO 9000 is
	Customer focus and Engagement of people Relationship management and Leadership Relationship management and Continuous improvement Evidence based decision making and Continuous improvement Customer focus and Evidence based decision making and Continuous improvement [1]
15)	Data used for filing process in technology transfer is of
,	1) Scale up batch 2) Exhibit batch 3) R&D batch 4) None of the above (1)
16)	The transfer of technology between sites of different companies is called as
	Inter- company transfer 2) Intra- company transfer 3) Technology transfer 4) Technology transfer protocol
17)	Six sigma concept includes
	Define, Measure, 1) Analyze, Improve and Control Design, Measure, Manage, All of these Improve and Control Control Define, Manage, Improve and Control Control Define, Manage, Improve and Control Control
18)	Quality management system deals with (1)

	Quality for their 1) products and services Safety for their and safety for their products and services Quality and safety for their products and services	
19)	Sir Bill smith is "Father of"	
	Technology Transfer 2) Total Quality Management Systems 3) Six Sigma 4) Quality-by-Design	(1)
20)	Which of the following is not a scale-up process?	_
	Laboratory to pilot-scale to industrial-scale scale 2) Pilot-scale to industrial to pilot-scale to industrial-scale 3) Industrial to pilot-scale to industrial-scale	(1)
	II Long Answers	
Answer	all the questions.	
1)	What is drug regulatory affairs? Describe the drug development teams.	(10)
2)	Discuss in detail about Central Drug Standard Control Organization	(10)
	III Short Answers	
Answer	all the questions.	
1)	What are the components of Form 44? Describe the data to be submitted in the application for grant of permission to import or manufacture a new drug in India.	(5)
2)	Describe Investigational New Drug Application and Investigator's Brochure.	(5)
3)	Describe SUPAC level 1 changes for manufacturing	(5)
4)	Discuss in brief about ISO 14000 Standard	(5)
5)	Explain the concept of Total Quality Management	(5)
6)	Explain technology transfer process for premises and equipments	(5)
7)	Explain various technology transfer agencies in India	(5)

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