Question Paper

Exam Date & Time: 29-Dec-2021 (10:00 AM - 01:00 PM)

CDSCO



MANIPAL ACADEMY OF HIGHER EDUCATION

Industrial Pharmacy [PCE-BP702T]					
Marks: 75		Duration: 180 mins.			
I Multiple Choice Questions (MCQs)					
Answer all the questions. Section Duration: 30 mins					
1)	Which of the following is not true with respect to scale-up of dry blending?	(1)			
	Geometric similarity of equipment between scales should not be maintained Low-dose API is preferably added to the blender before addition of excipients Mixing efficiency is highest below 10% fill level of the blender				
	All the above				
2)	The responsibility for pilot plant studies belongs to	(1)			
	only R&D scientists only Production team Separate pilot plant team Any of the above				
3)	Which of these is applicable to scale-up of fluid bed granulation operation?	(1)			
	Roller pressure Spray rate Impeller diameter Roller speed				
4)	If the data shows that the process performs consistently at critical step to produce a pro falls within release specification, then that process is said to be Qualified Calibrated Validated Installed	duct that (1)			
5)	Which of these is not a part of the GMP checklist with respect to scale-up of a new prod process? Equipment qualification Availability of SOPs Training of personnel Modification of product specification	luct or (1)			
6)	An Indian pharmaceutical manufacturer has to seek permission from which of the follow agencies for import of new drug?	ring (1)			

	DST DBT	
7)	Which of the following is used for permission to manufacture/ import a new drug in India?	(1)
	Form 49 Form 471 Form 44 Form 50	
8)	'ANVISA' is the drug regulatory agency of which geography?	(1)
	USA Australia UK Brazil	
9)	Which of the following can be a sponsor for a clinical trial?	(1)
	Government agency Scientific institution Drug manufacturer All the above	
10)	Investigational New Drug application is not required for which of the following?	(1)
	New Chemical Entity Generic drug New dosage level Previously unapproved combination of two drugs	
11)	According to Six Sigma Concept, the accuracy of process and products manufactured are statistically expected to be free of defects with	(1)
	3.4 defects in million 4.3 defects in million 3.3 defects in million 4.4 defects in million	
12)	The definition of Quality Risk Management (QRM) has been mentioned in ICH guideline	(1)
13)	Installation Qualification (IQ) is	(1)
	A documented verification of the proposed design of the facilities, systems and equipments. An evidence of all key aspects of the process equipment and ancillary system installation. Objective evidence process for the control limits and action levels in product of all predetermined requirements. Verifying a process, under anticipated condition, consistently produces a product which meets all predetermined requirements.	
1 4)	Out of Crossification deals with	(4)

14) Out of Specification deals with.....

(1)

	III Short Answers	
2)	Discuss in detail about Central Drug Standard Control Organization (CDSCO)	(10)
1)	Describe the scale-up considerations in the manufacture of tablet dosage form.	(10)
Answer all	the questions.	
	II Long Answers	
	Ahmedabad Mumbai Bangalore Chennai	
∠U)		(1)
20)	To help company procure and sell API Which one of the following place is not having zonal office of CDSCO	(1)
	damage To help company develop automatic technology transfer process	
	To help companies reduce industrial waste and environmental	
	To help companies sell drug at lower cost	
19)	Identify which of the below is ISO 14000 related to?	(1)
	Council Technology Information, Forecasting and Assessment Council	
	Technology Information of Forecasting and Assessment in	
	Technology Information for Formulation and Assessment Council	
	Technology in Forecasting and Assessment of Council	
18)	Give the full form of TIFAC	(1)
	<u>CDER guidelines</u> <u>PIC/S guidelines</u> <u>All of the above</u>	
17)	Is/ are the guidelines for defining to handle the OOS products/materials/batches	(1)
	FDA's sanction	
	Partnership & People's Acceptance	
	Proper Research & paper work Pricing & publicity	
16)	Important component of technology transfer involves all of the following except	(1)
16)	The Drugs and Cosmetics Rules The Narcotic Drugs and Psychotropic Substances Act Important component of technology transfer involves all of the following events	(1)
	Drug Enquiring committee	
13)	The poisons Act	(1)
15)	None of these Which one of the following law was passed in 1945 by the Indian Government?	(1)
	Both of these	
	If the analytical result(s) or batch or material is/are falling outside the established specification ranges	
	ranges	
	If the analytical result(s) or batch or material is/are falling within the established specification	

Answer all the questions.

1)	Describe Investigators' brochure and Investigational New Drug Application	(5)
2)	Write a note on drug discovery project-team and the disciplines associated with this team	(5)
3)	Describe the chemical and pharmaceutical information to be submitted to the regulatory agency for manufacture of a new drug in India	(5)
4)	Write a note on the drug discovery project-team and the disciplines associated with this team	(5)
5)	Discuss and Elaborate practical aspects and problems in commercialization	(5)
6)	Explain Out of Specification (OOS) concept	(5)
7)	What is technology transfer? Write in details WHO guidelines for technology transfer	(5)

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