Duration: 3 Hours		Total marks: 75
	<ul><li>All questions are compulsory</li><li>Figures to right indicate full marks.</li></ul>	Janes 1185 land
Q.I	Multiple Choice Questions (Answer all)	20
1	Which of the following is not scale up process	1
a)	Laboratory to pilot scale	BEST SEE
<b>b</b> )	Pilot to industrial scale	By By
c)	Industry to pilot scale	
d)	Laboratory to industrial scale	
2	Rapid mixer granulators are used in	
a)	Wet granulation	Silv Silving
<b>b</b> )	Dry granulation	
<b>c</b> )	Compression granulation	
d)	Direct compression	
3	Changes in the technical grade of excipients, comes undas per SUPAC guidelines	der 1
a)	Level 1	
<b>b</b> )	Level 2	
<b>c</b> )	Level 3	
<b>d</b> )	Level 4	

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4	A group of Technologies that are used as base upon which other technologies or processes are developed is
a)	PAT Technology
<b>b</b> )	QBD Technology
<b>c</b> )	Platform Technology
d)	Platinum Technology
5	Slugging is used for
a)	Ingredients which can be directly compresses
<b>b</b> )	Ingredients which cannot be directly compressed
c)	Ingredients which are stable to heat and moisture
d)	Ingredients with excellent flow property
649/1	Technology transfer guidelines issued by
100 x	MHRA
a)	
<b>b</b> )	WHO
<b>c</b> )	FDA CONTRACTOR OF THE CONTRACT
d)	CSCO
7	BMR stands for 1
a)	Batch Manufacturing Record
<b>b</b> )	Batch Marketing Record
c) (3	Batch Marketing Report
<b>d</b> )	Batch Manufacturing Report
8	Following ICH guideline mentions about product development 1
a) 3	Q4 25 65 25 25 25 25 25 25 25 25 25 25 25 25 25
<b>b</b> )	Q8
<b>c</b> )	Q9
<b>d</b> )	Q10

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9	NRDC implies
a)	National Revenue Development Council
u)	Translati Trevenue Bevelopment Council
<b>b</b> )	National Research Development Council
,	and the second of the second o
c)	National Research Design Council
d)	National Revenue Design Council
ŕ	To, By, Odo, Chi, Why, West,
10	Module 3 of NDA dossier as per CTD format includes 1
a)	Clinical study reports
b)	Quality overall summary
<b>c</b> )	Preclinical study reports
5)()	The sum of the start of the sta
<b>d</b> )	Administrative information
11	The objective of Phase III clinical trial study is
a)	To assess safety of drug
Ĉ	
<b>b</b> )	To assess efficacy of drug
7	The state of the s
<b>c</b> )	To assess bioavailability of drug
5	
<b>d</b> )	To assess safety and efficacy of drug

12	Safety Pharmacology studies are part of
a)	Clinical study
<b>b</b> )	Preclinical study
c)	Bioequivalence study
d)	Bioavailability study
13	In Clinical Research CRF implies
a)	Clinical Report Form
<b>b</b> )	Case Report form
c)	Compliance report form
d)	Candidate report form
14	Institutional Ethics Committee approves 1
<b>a</b> )	Protocol involving study on animals
<b>b</b> )	Protocol involving study on cell lines
<b>c</b> )	Protocol involving study on humans
d)	Protocol involving study on pathogens
15	In QbD the term CQA stands for 1
a)	Critical Quantitative Attainment
<b>b</b> )	Cumulative Quality Attributes
<b>c</b> )	Critical Quality Attributes
<b>d</b> ) $\diamond$	Cumulative Quantitative Attributes

16	Which of the following parameters relates to the "Six sigma 1 approach"
a)	Errors
b)	Cost
c)	Safety
d)	Defects
17	is a series of certification for international 1
	environmental management standards
a)	ISO 9000
<b>b</b> )	ISO 14000
c)	ISO 27000
<b>d</b> )	ISO 13000
18	In CTD which of the following Modules is region specific 1
a)	Module 1
<b>b</b> )	Module 2
<b>c</b> )	Module 3
d)	Module 4
19	DCGI stands for 1
<b>a</b> )	Deputy Commissioner General of India
,	
<b>b</b> )	Drug Controller General of India
Sylvi	
<b>c</b> )	Drug Commissioner General of India
<b>d</b> )	Deputy Controller General of India

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20	Which one of the following is the first document of submissions made in approval of a new drug	1
a)	Post marketing surveillance data	
<b>b</b> )	Bioequivalence studies	A
c)	Chemistry, manufacturing and controls	
d)	Onsite visit of facility	
QII	Answer the following (any two)	20
1	Give the detailed account of Pilot plant scale up of Tablet.	10
2	Describe in details the goals and phases of technology transfer	10
3	Differentiate between NDA and ANDA. Describe in details contents of ANDA	10
	Man Berg, Fig. Per, Mig. May Blog.	
ЭШ	Answer the following (any seven)	35
1	Explain the SUPAC guidelines for the change of manufacture site for immediate release products.	5
2	Mention in brief the role and responsibilities of Sending unit in technology transfer	5
3	Enlist different technology transfer agencies in India and describe objectives and functions of any one agency	5
4	Describe in brief the scope and contents of Investigator's brochure	5
5	Elaborate on the elements of QbD as a part of QMS	5
6	Explain the objective and principles of GLP	5
7	Define OOS and explain methods to handle or investigate an OOS	5
8	What is CDSCO and explain in brief its organization and responsibilities.	5
9	Discuss the importance of Certificate of Pharmaceutical Product	5

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