Dui	ration: (3 Hrs Total marks: 75
N.B		questions are compulsory gures to right indicate full marks
Q. 1	I Choos	e appropriate option for the following multiple choice-based questions. 20
1	Good	Manufacturing Practice is a part of ICH guidelines.
	a.	Quality Quality
	b.	Safety S S
	c.	Efficacy
	d.	Multidisciplinary
2	Air pro	essure differentials in a clean room should be checked
	a.	Daily St.
	b.	Yearly
	c.	Biannually
	d.	Weekly
3	two fa	used to help to determine whether there is a correlation between
		Fishbone diagram
	а. b.	Control charts
	00.	Scatter graphs
	d.	Check sheets
4	The _	is responsible for the conduct of a nonclinical laboratory study.
0	a.	Laboratory Technician
	b.	Scientist
	c.	Study Director
	d.	Quality Assurance Unit
5		spensing of raw materials from Stores must follow the principle of
	a.	First Out Then In
	b.	Fast Out Fast In
	c.	Fast In Fast Out
	d.	First In First Out
6	Prospe	ective validation is performed on at least successive batches.
	a.	Ten
	b.	Three
	c.	Five S
	d.	Two

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7		is the key element responsible for the organizational growth and
	outcon	nes.
	a.	Personnel
	b.	Equipment
	c.	Premises
	d.	Layout
8	Compl	laint investigation is the responsibility of
	a.	Quality Control department
	b.	Production department
	c.	Quality Assurance department
	d.	Marketing department
9	ISO 14	001 is for management.
	a.	Quality
	b.	Environmental
	c.	Resource
	d.	Organization
10	Servic	e bay is maintained at
	a.	Class 1000
	b.	Class 20
	c.	Class 10
	d.	Class 50
11	Gramr	mage is used to determine the physical dimensions of the material.
0,	a.	Thermosetting plastic
	b.	Metal
	c .	Glass
	d.	Paper and paperboard
12	A _	container is closed by fusion of the material of the container.
	a.	Sealed
	b.	Light- resistant
	c.	Hermetically sealed
X.	d.	Well closed
13	In	purchasing, different departments purchase their requirement
	separa	
	a.	Closed
	b.	Centralized
	c.	Decentralized
	d.	Limited

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14	Foldin	g endurance is performed for
	a.	Carton
	b.	Closure
	c.	Carton
	d.	Paperboard
15	Calibr	ation of an equipment should be performed using
	a.	Test sample
	b.	Certified Standards
	c.	Inhouse standards
	d.	Reference sample
16	Which	of the following is an example of secondary packaging?
	a.	Bottles
	b.	Barrel
	c.	Blister
	d.	Cartons
17	In the	test for volatile sulphides in rubber closure, paper is used.
	a.	Litmus paper
	b.	Lead acetate paper
	c.	Starch paper
	d.	Mercuric chloride
18) 	is at the apex of Quality Management System.
6	a.	Quality Records
	b.	Quality procedures
	c.	Quality Manual
	d.	Working instructions
19	Cleani	ng of the equipment is a part of
	a.	Predictive maintenance
	b.	Corrective maintenance
	c.	Curative maintenance
		Periodic maintenance
20	The vi	tal link between all elements of TQM is
	a.	Leadership
	b.	Communication
	c.	Training
	d.	Recognition

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Q . 1	II Answer any two questions. (Any 2)	20				
1	Define QbD. Elaborate on tools of QbD. Give the difference between QC and QA.	10				
2	Discuss quality control tests for plastic containers and rubber closure.	10				
3	Enlist the types of documents maintained in pharmaceutical company. Write in brief about master formula record.					
Q. 1	III Answer any seven questions (Any Seven)	35				
1	What is Quality management System? Give the role of Quality Control and Quality Assurance departments in a Pharmaceutical Industry	5				
2	Write in brief about disqualification of testing facilities.	5				
3	Define and differentiate between Quality audit and Quality Review.	5				
4	Enlist the benefits of ISO and explain the process of ISO registration.	5				
5	Discuss the training and personal records with reference to GMP in a pharmaceutical industry	5				
6	Define calibration. Elaborate on the process for calibration of the pH meter.	5				
7	Discuss the steps involved in handling of complaints in a pharmaceutical company.	5				
80	Explain the process of equipment selection and maintenance in the pharmaceutical manufacturing unit.	5				
9	State the importance of inventory management. Discuss the Good warehousing practices in detail.	5				
