Total No. of printed pages = 3 BBA 18150 E 7 Roll No. of candidate LIBRAIN 17/2) 2021 Aven Halkinswapara, rativahes 7/mo17 B.B.A. End-Term Examination QUALITY CONTROL AND MANAGEMENT (New Regulation) Time - Three hours Full Marks - 70 The figures in the margin indicate full marks for the questions. Answer question No. 1 and any four from the rest. Answer the following (MCQ/ Fill in the blanks): $(10 \times 1 = 10)$ 1. What do QA and QC stand for? Quality Assurance and Queuing Control Quality Adjustment and Quality Completion Quality Assurance and Quality Control (c) Quality Adjustment and Queuing Control What is QA? (ii) What is the measurement of degree to which a product satisfies the need Any systematic process used to ensure quality in the process (b) Process of identifying defects (c) It is a corrective tool (d)

(iii) Control limits are

(a)

(b)

(c)

(d)

Limits defined by customers

Statistical limits.

Limits driven by the natural variability of the process

Limits driven by the inherent variability of the process

Turn over

(iv)	The natural variability of the process is measured by ———————————————————————————————————				
	(a)	Process mean			
	(b)	Sample standard deviation	m1818.6	CHOWDHURY CENTRAL LIBRAIN	
i i	(c)	Process standard deviation	BINA	trallyii & Rins) -	
	(d)	Sample mean			
(v)		x sigma process has defect le ion opportunities	vel bel	ow defects per	
	(a)	3.4	(b)	4.5	
	(c)	5.6	(d)	6.7	
(vi)	The plan-do-check-Act (PDCA) model is also known as				
	(a)	Ishikawa cycle	(b)	Juran Cycle	
	(c)	Motorola cycle	(d)	Shewart cycle	
(vii)	The	type of variation that is caus	ed by	factors outside a system is called	
	(a)	Common cause variation	(b)	Input/Output	
	(c)	Processes	(d)	Special cause variation	
(viii)	The	chart used to monitor attrib	utes is		
	(a)	Range chart	(b)	Mean chart	
	(c)	P-Chart	(d)	All of the above	
(ix)	Cen	tral tendency of a process is r	nonito	red in	
	(a)	Range chart	(b)	Mean chart	
	(c)	P-chart	(d)	C-chart	
(x)		dividing lines between rand ne distribution are known as	om an	d non random deviations from mean	
	(a)	Upper control limit	(b)	Lower control limit	
	(c)	Control limits	(d)	Two sigma limits	
(a)	Defi	ne Quality. Discuss the basic	cost o	f poor quality. (3+4)	
(b)	Discuss the concept of Total Quality Management. (8)				
(a)	What is Kaizen? How it is different from innovation? (4+3)				
(b)		inguish between assignable distinction important in qual		common causes of variation. Why is ntrol? (4+4)	

2.

3.

4.	(a)	What is the meaning of process capability ratio? Explain Cp and CpK indices. (4+4)
	(b)	What do you mean by Type I and Type II errors? (7)
5.	(a)	Briefly discuss contribution of Deming and Juran towards quality. (4+4)
	(b)	Discuss Single sampling Plan and Double Sampling Plan. (7)
6.	Brie	efly discuss any three from the following. (5+5+5)
	(a)	Histogram
	(b)	Pareto Chart BINA CHOWDHURY CENTRAL LIBRARY
	(c)	Ishikawa Diagram
	(d)	Check sheet
7.	(a)	Below table refers to data on visual defects found in the inspection of the first 10 samples of size 400. Use the data to obtain upper and lower control limits for percentage defectives in samples of size 400. Draw an np-chart. (8)
		Table: Data showing number of non-conformities.
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		1 2 3 4 5 6 7 8 9 10
	(b)	1 2 3 4 5 6 7 8 9 10