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		_	's choice www.FirstRa		EME-055	_
	Follo	wing Paper	ID and Roll N Answer Book		in your	r.com
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	T	heory Exam	ination (Semes	ter-VIII) 201	5-16	
	S	IX SIGMAN	METHODS &	APPLICATI	ONS	
Time: 3 Hours				Мах.	Marks: 100	
Q1.	Q1. Attempt all question				(2×10=20))
	(a)	What are 'products'	the difference	s between '	services' and	i
	(b)	How do yo	ou visualize qu	ality in the se	ervice sector	?
	(c)	What is in	nferential statist	tics?		
	(d)	Define me kurtosis.	edian, range,	standard de	eviation and	1
	(e)	Differential bution.	te between No	rmal and Bi	nomial distri	-
	(f)	What is hi	istogram? How	is it constru	cted?	

(I) COM

(g) What is SIPOC?

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<u>©</u> 3 What is meant by defects? Explain how you will classify

Discuss the box-plot vis-a-vis a histogram. Can we call performance of a product, service or system. the importance of having 'sigma' as a metric in denoting defects in qualitative measurements case. Also explain

> Q3. What are QFD (Quality function deployment) and Failure Attempt any two in Six Sigma. Give a brief review of reinforcement and control procedures $(2 \times 15 - 30)$

Modes & Effects Analysis' (FMEA)? How to perform

a Pareto chart a histogram? Justify your answer.

Ŗ A process produces 40,000 pencils. Three type of defects Find out DPMO Rolled ends (at top and/or bottom) = 11 Wrong dimension (at three independent place) =118 are: Blurred printing (as pencil slips in the fixture) = 36 can occur. The number of occurrence of each defect type

Explain three basic approaches for implementing six sigma.

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