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APR-MAY

B. E. (Seventh Semester) Examination, 2020

(Old Scheme)

(Mech., Mechatronics Engg. Branch)

QUALITY CONTROL & TOTAL QUALITY MANAGEMENT

Time Allowed: Three hours

Maximum Marks: 80

Minimum Pass Marks: 28

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Note: Attempt all questions. Part (a) of each question is compulsory. Answer any two parts (b), (c) and (d) of each question. Give suitable neat and clean figures wherever necessary.

Assume suitable data if required and mention it at respective place(s).

- 1. (a) What do you mean by quality of performance? 2
 - (b) Define analysis of variance (ANOVA) and discuss its utility.

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	2 yallan 1 09 - 4		3. (a) Define Acceptance Sampling.
	Some Sample Numbers of season No. of Scratches	1 1	(i) Objectives of Statistical Quality Control (ii) Concept of six sigma
	manufacturing of executive chairs. To control the quality of executive chairs, 15 chairs are randomly selected to inspect number of scratches on each of the chair. Following observation are recorded:		Prepare c chart and analyze the result. Also interpret your views. (d) Briefly explain the following:
	(c) ENKAY Industries Pvt. Ltd. involves in	. v	15 Proposition of the residence of the proposition
	Function Deployment (QFD) process with the help of diagram.	7	13 (14) byte lander specific (13) (11)
2.	(b) Discuss the four "Houses of Quality" in Quality	2	11 12 12 12 14 (a)
2	(a) Define Quality Mindness.	2	10 ஆர் செய்க 70 இரு விரும் முத்தின் மு
	and Median) (ii) Measures of dispersion (Range and standard		Ence Note that 9 has maken the rate (DE) 02 at W. (Lin
	(i) Measures of Central Tendency (Mean, Mode	7	7 7 12°
	define and design a quality policy for an organization. (d) Briefly explain the following with suitable	7	5 = 1,000 = 1,000 = 0,0
	(c) Discuss the various factors which are considered to		and a green 3 sector are suppressed 19 per edi

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	(d)) Briefly explain the following:			
		(i) Deming's quality approach			
		(ii) Taguchi's quality concept			
5.	(a)	What do you mean by Quality System Standards?	2		
	(b)) Discuss the purpose and advantages of ISO 14000			
		system standard.	7		
	(c)	What is ISO 9001: 2000? Summarize its five clauses-clause 4 to clause 8.	7		
	(d)	What is ISO certification? Discuss the steps involved in getting an ISO certification.	7		