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APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY 07 THRISSUR CLUSTER

FIRST SEMESTER M.TECH. DEGREE EXAMINATION MARCH 2021 DEPARTMENT OF MECHANICAL ENGINEERING INDUSTRIAL ENGINEERING AND MANAGEMENT

07 ME 6403 WORK SYSTEM DESIGN

Time:3 hours Max.Marks: 60

Answer all six questions. Part 'a' of each question is compulsory.

Answer either part 'b' or part 'c' of each question

Q.no.	Module 1	Marks
1a	What is the influence of method and Time study on production activities?	4
	Answer b or c	
b	Give a brief description about productivity.	5
С	Define the concept of work content and techniques to reduce it.	5
Q.no.	Module 2	Marks
2a	What are the filming operations to be studied in micro motion study?	4
	Answer b or co	
b	What are the advantages of film over direct observation?	5
С	How we analyze the data from the film?	5
Q.no.	Module 3	Marks
3a	What is wage incentive plans and mention its main objectives?	4
	Answer b or c	
b	What is compensation schemes and mention its objectives?	5
С	Describe different types of compensation schemes with example?	5

Q.no.	Module 4	Marks
4a	What are the 2 frequently used methods for developing standard allowance data?	4
b c	Answer b or c Define rating? What is the importance of rating during Time study? What are the 4 basic work measurement techniques used and explain each?	5 5
Q.no.	Module 5	Marks
5a	List out the various methods used to analyze a person's posture	5
	Answer b or c	
b	Write a note on body mechanics and its importance	7
С	What are the fundamental principles of ergonomics for better work performance	7
Q.no.	Module 6	Marks
Q.no. 6a	Module 6 In what ways can the reliability of a system be improved	Marks 5
	In what ways can the reliability of a system be improved Answer b or c	
	In what ways can the reliability of a system be improved	
6a	In what ways can the reliability of a system be improved Answer b or c Prior to workers' compensation, what three common law conditions were used	5
6a b	In what ways can the reliability of a system be improved	5 7
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