USN					

15ME51

Fifth Semester B.E. Degree Examination, June/July 2018 **Management and Engineering Economics**

Time: 3 hrs.

Max. Marks: 80

Note: 1. Answer any FIVE full questions, choosing one full question from each module

		N	ote: 1. Answer any FIVE full questions, choosing one full question from each m	odule.
i.			2. Use of "Compounding interest factor" tables are permitted.	
acti				
apr			Module-1	
SIIIS	1	a.		(08 Marks)
22		Ь.	List and brief the principles of scientific management.	(08 Marks)
earc			O.D.	
n 20	2		OR Define Planning and list the importance of planning	(00 N/II)
=	2	a.		(08 Marks)
uations written eg, $42+\delta=50$, will be treated as		b.	Explain the various steps in a decision making process, with a block diagram.	(08 Marks)
0			Module-2	
774	3		Define Organization. What are the principles of Organization?	(08 Marks)
àc		b.	Explain briefly the selection process of personnel for the organization.	(08 Marks)
Ten				
M I			OR	
Suc	4	a.		(68 Marks)
nati		b.	Explain the Maslow's hierarchy of needs theory.	(98 Marks)
50				
0.0			Module-3	
and	5		List the differences between Micro and Macro Economics.	(08 Marks)
ator		b.	Explain briefly the following:	(08 Marks)
/alu			i) Law of Demand ii) Law of Supply iii) Equilibrium point iv) Income	Elasticity.
0 e				
ia ia			OR	
oddı	6	a.		(08 Marks)
n, 8		b.		
atic			borrowers and lenders point of view.	(08 Marks)
titic				
den			Module-4	
011	7	a.	A person takes a loan of Rs 1200/- from a bank at an interest of 18% p.a. Find the	
Ing			the interest is compounded: i) Annually ii) Half yearly iii) Quarterly iv)	
revealing of identification, appeal to evaluator and for		h	Find the compound amount of Dr. 5000/ at 60/ for 1. 9 and 12 years and compare	(08 Marks)
IE		U.	Find the compound amount of Rs 5000/- at 6% for 4, 8 and 12 years and compare	the result

does doubling the time doubles the amount of interest earned. (08 Marks)

OR

- a. Define Rate of Return and explain minimum Acceptable rate of Return and internal rate of
 - b. Two types of power converter Alpha and Beta are under considerations for a particular application. An economic comparison is to be made at an interest rate of 10%. Following cost estimation has been obtained. Determine the Annual equivalent costs of two systems. Select the best converter. (10 Marks)





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Cost particulars	Alpha	Beta
Purchase price	Rs 10,000/-	Rs 25,000/-
Estimated service life	8 years	9 year
Salvage value	Rs 3000/-	Rs 5000
Annual operating cost	Rs 2500/-	Rs 1200

Module-5

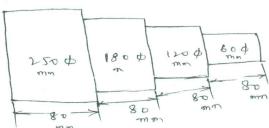
- 9 a. Briefly explain "Components of Costs" and explain with diagram indirect cost estimation with depreciation. (08 Marks)
 - b. Explain how the selling price is fixed for a product and show all the components of costs.

 (08 Marks)

OR

- 10 a. Define Depreciation and explain the various causes of depreciation. (08 Marks)
 - b. Determine the material cost for fig. Q10(b), density of the material is 7.009 gram/cc and material cost is Rs 20/kg. (08 Marks)

Fig.Q10(b)



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