Model Question Paper -1 with effect from 2020-21(CBCS Scheme)

USN

Fifth Semester B.E. Degree Examination Management and Economics

TIME: 03 Hours Marks: 100 Max.

O1. Answer any FIVE full questions, choosing at least ONE question from each MODULE.O2. Use of compound Interest Tables is permitted Note:

		Module - 1	
		Ts Management an art or a science? Bring out the	
0.1	(a)	differences between Management and Administration.	10
Q.1	(b)	What is planning? Discuss in detail the steps involved in planning.	10
		OR	
Q.2	(a)	needed to carry out the responsibilities at these levels.	10
Q12	(b)	plans.	10
		Module - 2	
	(a)	the span of control?	10
Q.3	(b)	What is controlling and what are the requirements of an efficient controlling system?	10
		OR	
	(a)	List and discuss the various principles of Organization.	10
Q.4	(b)	What are different theories of motivation? Explain any one in detail.	10
		Module - 3	
Q.5	(a)	Explain the law of demand and supply with suitable examples	10
	(b)	A person wishes to have Rs.10,00,000 for his daughter's marriage, 12 years from now. He plans to deposit a lump sum amount which will fetch him an interest of 10% compounded semi-annually. Determine the amount he should deposit now.	06
	(c)	How much interest is earned on a Principal amount of Rs. 25,000 for 7 years 10 months, at 8% compounded monthly?	04
		OR	
	(a)	Briefly explain the meaning of elasticity of demand and the types of elasticity of demand.	06
Q.6	(b)	A person will retire at the age of 58 years and wishes to receive a lump sum for his retirement. He invests in a retirement policy when he is 40 years old with an annual premium of Rs.60,000 till he reaches 58 years. If the rate of interest is 10.5% compounded annually, find out how much lump sum money he will receive at the end of the policy.	08

(c) A person plans for higher education of his child. He needs the amount at the end of 18 years. He invests Rs.80,000 at the commencement of the policy and increases his investment by 10% every year for the next 17 years. What will be the maturity amount he will receive if the policy promises a return of 12% per year? Module - 4					
Q.7	 (a) A company needs a mini bus to commute their employees from home to work and back. They have two alternatives: To rent a vehicle at Rs. 3 Lakhs per year for the next five years. To buy a second hand vehicle for Rs. 3 lakhs with an operating and maintenance cost of Rs. 1.8 Lakhs per year. The salvage value of the vehicle after a period of 5 years is Rs. 85,000. Select the best alternative based on the present worth comparison using an interest rate of 10% compounded annually. 				
	(b)	Find the best option to buy a CNC machine using a future worth method: Option Initial Investment 20,00,000 18,00,000 Annual Maintenance 2,00,000 1,80,000 Annual savings 3,00,000 2,50,000 Salvage 2,30,000 1,60,000 Life 10 Years 10 Years Use interest rate of 10.5% compounded annually	10		
Q.8	Q.8 (a) Two machine models A and B perform the same function. Machine A has a low initial cost of Rs. 75,600 but a relatively high operating cost of Rs.1760 more than that of machine B. It has a life of 4 years. Machine B costs Rs.1,01,000 and an annual maintenance cost of Rs. 6000 per year and can be kept economically operational for 8 years. The scrap value of either machine is negligible. Which machine is preferred using an equivalent annual cost? The				
minimum attractive rate of return is 9%. (b) A plot can be purchased for Rs.14,00,000. Company A offers a loan at a nominal interest rate of 8% if a down payment of Rs.1,00,000 is made initially. The loan is to be paid off in 10 years. Company B offers 8 years of repayment period for the same amount of down payment at an interest rate of 9% compounded annually. Calculate the annual repayment for both the alternatives. Module - 5					
0.0	(a)		10		
(b) A firm is producing 2000 pens per day. The direct material and labor cost are Rs.1800 and Rs. 2200 respectively. The chargeable factory overheads are Rs.2900. If selling is to be done at 20% above the factory cost, what must be the selling cost of each pen if the company needs to make a profit of 22% of the selling price? OR					
	(a)		12		
Q.10	(a)	for 8 years after which its salvage value is expected to be Rs.3,50,000. Find:	16		

18ME51

	 i.) Depreciation fund at the end of 5th year by fixed method and declining balance method. i.) Book value of the machine after the 4th and 6th year by declining balance method. 	
(b)	A company purchases a lathe machine for Rs.5,00,000 to operate it for 5 years at an interest rate of 5%. If the salvage value is Rs.60,000 after 5 years, determine: i.) Sinking fund amount i.) Annual depreciation cost	08

Questio		n Bloom's Taxonomy Course Level attached Outcom		Programme Outcome
			e	
Q.1	(a	L1	C01	
)			
	(b	L1	CO2	
)	L2		
Q.2	(a	L1	C03	
		L2		
	(b	L1	CO3	
)	L2		
Q.3	(a		CO3	
-				
	(b	L1	CO3	
)			
Q.4	(a	L1	CO3	
•)	L2		
	(b		CO3	
)			
	(c	L1	C03	
	``	L2		
Q.5	(a		C04	
~.	۱ <u>`</u> ` `			
	(b	L4	CO4	
	``			
	(c	L2	CO4	
	1			
0 6	(a	L1	CO4	
Q.6	ارم ا	L1 L2		
	(b		CO4	
	/ LD	L4 L5		
	1		CO4	
) (C	L4	CO4	
	1	L5	CO5	
Q.7	(a	L4	COS	
)	. 4	CO5	
	(p	L4	COS	
)		CO5, CO6	
Q.8	(a		(03, 006	
)	L5	CO5	
	(p		CUS	
)	L5	COF COC	
Q.9	(a	L5	CO5, CO6	
	<u>)</u>		505 556	
	(b		co5,co6	
)	L5	-	
Q.10	(a	L1	CO5	
)	L2		
	(b		C06	
)	L5		
			Lower order thinkir	ng
Bloom'		Bannanda ! C	skills	
Taxono Y	/III	Remembering(knowledge):□ ₁	Understanding Comprehension): □ ₂	Applying (Application):
y	;	KIIOW I EUUE / L 🗆 1		T CAUDITUALIUIDI.

18ME51

	Higher order thinking skills	
Analyzing	Valuating	Creating
(Analysis): 🛛 4	(Evaluation): □5	(Synthesis): □ ₆

Model Question Paper -2 with effect from 2020-21(CBCS Scheme)

USN

Fifth Semester B.E. Degree Examination Management and Economics

TIME: 03 Hours Marks: 100 Max.

Note:

O3. Answer any FIVE full questions, choosing at least ONE question from each MODULE.O4. Use of compound Interest Tables is permitted

Module - 1					
	(a)	Discuss the nature and characteristics of Management.	10		
Q.1	(b)	List the various types of plans. Why is decision making important in planning?	10		
		OR			
Q.2	(a)	Describe the evolution process of the Management thought process considering the early schools of thoughts and the modern styles of management.	10		
	(b)	understand by the term Premises of Planning?	10		
		Module - 2			
Q.3	(a)	What is leadership? What are the various leadership styles?	10		
	(b)		10		
		OR			
	(a)	What is staffing? Describe the process of selection in detail.	12		
Q.4	(b)	Define MBO(Management by Objectives) and MBE(Management by Exception)	04		
	(c)	success of any organization.	04		
		Module - 3			
Q.5	(a)	With a neat sketch, explain the problem solving process.	06		
	(b)	monthly iii) quarterly iv) semi-annually v) continuously	10		
	(c)	Explain with suitable examples, simple rate of interest and compound rate of interest	04		
		OR			
	(a)	Explain the law of diminishing returns and its limitations	06		
Q.6		Find the profitable investment among the two after 10 years: i.) Option A involves one time investment of Rs.1,00,000	08		
		i.) Option B involves Rs.12,000 investment annually Both options give 10% interest rate compounded annually.			
	(c)	Calculate the rate of return if a person invests Rs.15,000 at the end of 1 st year and increases it at the rate of 10% per year. He invests for 10 years and at	06		

	the end he receives a lump sum of Rs.2,50,000.						
			Module – 4				
	(a)				1	12	
		Alternative	X	Y	Z		
Q.7		Initial Investment in	10,00,000	11,00,000	12,50,000		
		RS	_	_	_		
		Life	7 years	7 years	7 years		
		Salvage value in Rs	1,20,000	2,50,000	3,00,000		
		Revenue in Rs	1 st years 2	1 st years 2.5	1 st years 3		
			lakhs and then	lakhs and then	lakhs and then		
			increases by 10%	increases by 5%	decreases by Rs.6000 per year		
		Annual	Rs.35,000 for	Rs.40,000 for	Rs.50,000		
		Maintenance	the Í st year	the 1st year	annua ¹ 1y		
		in Rs	and then	and then			
			increases by	increases by			
	(h)		8% per year	5% per year.		0.0	
	(b)	Choose the best method:	alternative b		worth	08	
		Alternative	X	Υ	Z		
		Purchase	2,00,000	4,50,000	4,00,000		
		price in Rs Life	1 voarc	9 voans	9 voans		
		Salvage value	4 years 1,20,000	8 years 90,000	8 years 85,000		
		in Rs	1,20,000	30,000	65,000		
		Revenue in Rs	3,00,000	2,10,000	1,95,000		
		Annual	50,000	35,000	30,000		
		Maintenance	,	,	,		
		in Rs					
			OR				
	(a)	A food processi	ng company is	planning its ex	pansion of	12	
Q.8		cold storage fa are being consi	Clilty. Three	aiternative sit pp a+ 10% plan	e proposals		
Q.8		require an inve	estment of Rs.3	6.00.000 for th	e land while		
		require an investment of Rs.36,00,000 for the land while plan C requires Rs.44,00,000. The investment will					
		increase the company's revenue by Rs.24,00,000 per year.					
		The company proposes that a life of 10 years be used for analysis. Data pertaining to the project are given below:					
		Details	Proposal A	Proposal B	Proposal C		
		Building &	60 Lakhs	70 Lakhs	50 Lakhs		
		Machine					
		Installation					
		Compressor	10,00,000	13,50,000	8,50,000		
		cost	_				
		Expected	6,50,000	4,80,000	6,50,000		
		energy cost					
		per year					

		Increase in	30,00	00	20	0,000	35,000	
		energy cost						
		for each						
		additional						
		year	2 00 0	200	1 1	-0.000	F 00 000	
		Annual	2,00,0)00	1,5	50,000	5,00,000	
		Maintenance						
		Salvage valu	ie 3,50,0	000	4,3	30,000	1,80,000	
		of equipment			,		, ,	
		Evaluate and		vhich i	oronos	al has to	he selected	1
		based on equa	ted annual	worth	analv	sis	20 30 CCCC	
	(h)	The following	alternativ	es cai	n nerf	orm the s	ame function	08
	(b)	At an annual	rate of 11%	ranl	the	alternati	ves as ner	
		the equivalen	nt annual co	s, . a	· Ciic	arcernaer	ves as per	
		Alternativ		ı i	fe	Salvage	e Annual	1
		e	11136 6036			value	cost	
		A	6000	6 1/4	ears	2000	800	-
		В	3000			1000	1000	-
		С			ears		1200	
		C	2000	3 y t	ears	NIL	1200	
			secolo 7					
		essimile of	Module			L	· _ · _ · _ · _ · _ · _ · _ · _ ·	10
	(a)		weight of t	ne cor	nponen	τ and cos	τ _. οτ material	10
		if the cost						
Q.9		density of C	ci as 7.13g	ym/cm³)	step	ped bar	shown in the	
Q.J		figure:						
		•						
		Ŧ	////					
		99 99 99						
		•			111111		1	
			Page 45 TO 10. (1980)					
				20	25			
			20	30	35	-		
		The market pr	rice of a wa	shina	machin	e is Rs 5	0.000 and the	10
	(b)	discount allo						
		price. The selling expense of the product is 15% of the						
		factory cost. If the material cost, labor cost and factory						
		overheads are in the range of 1:3:2, what profit is made						
		by the factory on each washing machine if the material						
		cost is Rs.4,000? Other overhead costs may be neglected.						
			O					
	(2)	Briefly expla						10
	(a)					ma+had		10
0 10		i.) Fixed percentage depreciation method						
Q.10		i.) Sinking_fund depreciation method						
		i.) Personal Income tax						
		v.) Corporate income tax						
	(b)	A VMC costs	Rs.35,00.00	0 and	is ex	pected to	serve for 8	10
		years after						
		Rs.3,00,000.		· • • •	,			
				machi.	.o	or 4th an	d 6th waar by	,
		-			ie alt	er 4° an	d 6 th year by	
			ng _. balance _. m		c			
		i.) Depreciation at the end of 6 th and 7 th year by SOYD						
		(sum of year digits) method						
		i.) Deprecia	ition by str	aight	line i	method of	depreciation	

Questio		n Bloom's Taxonomy Course Level attached Outcom		Programme Outcome
			e	
Q.1	(a	L1	C01	
)			
	(b	L1	CO2	
)	L2		
Q.2	(a	L1	C03	
		L2		
	(b	L1	CO3	
)	L2		
Q.3	(a		CO3	
-				
	(b	L1	CO3	
)			
Q.4	(a	L1	CO3	
•)	L2		
	(b		CO3	
)			
	(c	L1	C03	
	``	L2		
Q.5	(a		C04	
~.	۱ <u>`</u> ` `			
	(b	L4	CO4	
	``			
	(c	L2	CO4	
	1			
0 6	(a	L1	CO4	
Q.6	ارم ا	L1 L2		
	(b		CO4	
	/ LD	L4 L5		
	1		CO4	
) (C	L4	CO4	
	1	L5	CO5	
Q.7	(a	L4	COS	
)	. 4	CO5	
	(p	L4	COS	
)		CO5, CO6	
Q.8	(a		(03, 006	
)	L5	CO5	
	(p		CUS	
)	L5	COF COC	
Q.9	(a	L5	CO5, CO6	
	<u>) </u>		505 556	
	(b		co5,co6	
)	L5	-	
Q.10	(a	L1	CO5	
)	L2		
	(b		C06	
)	L5		
			Lower order thinkir	ng
Bloom'		Bannanda ! C	skills	
Taxono Y	/III	Remembering(knowledge):□ ₁	Understanding Comprehension): □ ₂	Applying (Application):
y	;	KIIOW I EUUE / L 🗆 1		T CAUDITUALIUIDI.

18ME51

	Higher order thinking skills	
Analyzing	Valuating	Creating
(Analysis): □4	(Evaluation): □5	(Synthesis): □ ₆

