Total No. of Questions : 5]

P3244

SEAT No. :

[Total No. of Pages : 3

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T.E. (Civil) (Semester - II) End Semester PROJECT MANAGEMENT AND ENGINEERING ECONOMICS (2012 Pattern) (301008)

Time :2.5 hours]

[Max. Marks :70

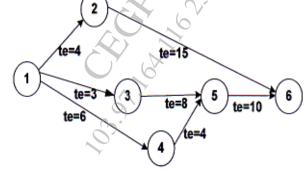
Instructions to the candidates: Answer Q.1 or Q.2,

Answer Q.1 or Q.2, Q.3 or Q.4, Q.5 or Q.6, Q.7 or Q.8, Q.9or Q.10

- *Q1*) a) Explain any five principles of scientific management. [5]
 - b) Define delegation of Authority. What are its advantages? [5]

OR

- **Q2**) a) What are the domain areas of Project management? [5]
 - b) Find out expected project duration of the net work diag. given below. What are the chances of completing project in 21 weeks? Mark critical path.
 [5]



- *Q3*) a) Draw the network diag., find Project duration and mark critical path By using following data [6]
 - i) Activity A &B are starting activities, requires 9 and 6 days to complete resp.
 - ii) Activity C follows activity B, activity C takes 2 days to complete.
 - iii) Activity D succeeds activity C and A, activity D take 5 days to complete
 - iv) Activity D is terminal activity
 - b) What are the methods of planning and scheduling? Explain any one. [4]

- List out step by step procedure of network compression. [4] **Q4**) a)
 - Find out the cost of project before crashing? What will be the change in b) cost of project by crashing it to minimum time? Consider indirect cost is Rs.100/-day [6]

	(6			
	Activity	NT	СТ	NC	CC	
		(days)	(days)	(Rs.)	(Rs.)	
	10-20	6	2	1000	1200	
6	10-30	8	5	1500	1800	
C	10-50	13	10	2000	2450	
	20-30	4	3	500	550	
0	20-40	10	8	1600	2000	0
10	30-50	7	4	1200	1500	1.
Expla	ain the follo	owing	0	S. C		

Explain the following **Q5**) a)

[8]

[4]

[8]

- Annuities and their types i)
- Law of diminishing marginal utility ii)
- Discus importance of economics in construction industry [4] **b**)
- What do you understand by Law of substitution? c)

OR

- Write a short note on: **Q6**) a)
 - Demand curve and factors affecting on it i)
 - Supply curve and factors affecting on it ii)
 - Define Goods, Wants, assets, liability with the help of example. b) [4]
 - Ms.Madhuri invests Rs. 100000/- in a bank at nominal interest rate 12% c) for 7 years. The compounding is Monthly. Find future amount she will get after 7 yrs. [4]

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- What are the objectives of material management and functions of purchase **Q7**) a) dept.? [6]
 - Define inventory and explain any one technique of controlling inventory.[6] b)
 - Define IFR, ISR and injury index with formulas c)

OR

- What do you know about the indent? Explain process of material issue **Q8**) a) and return of site you visited. [6]
 - What points should you consider while making safety programme of b) construction site? [4]
 - "Sakalp groceryshoppee" carries the following items .Segregate the items c) based on their annual usage and plot ABC curve. [8]

Sr.	Item	Annual	Cost in Rs. per
No.		Consumption	unit
1	Sugar	150 bags	4000/-
2	Wheat	400 quintal	2000/-
3	Moog dal	3000 kg	60/-
4	Tur dal	4500 kg	100/-
5	Oil sunflower	3000 lit.	90/-
6	Chocolates	3000 pkts.	50/-
7	Soap	10,000 nos.	10/-

- What are the different types of appraisals required to undertake any **Q9**) a) Project? Explain any one in detail. **[6]**
 - reaker. sty. Explain break even analysis with help of figure showing breakeven point, b) break even sales, angle of incidence and margin of safety. [6] [4]
 - c) Write a short note on any one
 - Payback period i)
 - Role of PMC ii)

OR

Q10)Write a short note on any four

- IRR method a)
- BC ratio method b)
- Detailed project report (DPR) c)
- NPV method d)
- Pre tendering and post tendering e)

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[6]