Enrolment No.

GUJARAT TECHNOLOGICAL UNIVERSITY BE - SEMESTER-VII(OLD) • EXAMINATION – WINTER 2016

Subject Code: 170601 Date: 25/11/2016 **Subject Name: Construction management and Equipments** Time: 10:30 AM to 01:00 PM **Total Marks: 70 Instructions:** 1. Attempt all questions. Make suitable assumptions wherever necessary. 3. Figures to the right indicate full marks. 4. **Q.1** Define management and explain six major function of construction management. 07 (a) **(b)** Discuss objectives of Construction Management. 07 07 0.2 Explain Gantt bar chart and mile stone chart with example. (a) Discuss the important points to be considered while drawing the CPM network. 07 **(b)** .Draw the network for following data:-**ACTIVITY PREDECESSOR** A В C A D В E A F В G C,DН G,F I Ε J H,I K J OR Define and explain the following terms. (i) Total float (ii) Independent float (iii) **07** Free float. **Q.3** What is depreciation? Enlist all its method to determine depreciation, explain any **07** (a) Enlist the different types of activities and events. Also give difference between **07 (b)** activity and event with suitable example OR Discuss Cost Optimization by Crashing. Also define Direct and Indirect Cost. **Q.3 07** (a) When updating of networks is required? Explain with procedural steps. **(b)** 07 **Q.4** Discuss briefly the factors affecting in selection of construction equipment. Also **07** (a) list major/minor equipments used in construction work. Explain economic life of construction equipment in detail **(b) 07** OR 0.4 (a) The cost of dragline is Rs. 35 lacs and its salvage value is 12% of original cost. 07 The dragline is used for 2300 hrs per year and its life is 6 years. The hiring cost including maintenance and repair is Rs. 32000 per month. Suggest whether to

purchased or hired on rent?

(b)

Discuss safety measures for construction sites

Q.5	(a)	Write short notes on :- Draglines and Clam shell	07
	(b)	What are Belt Conveyors explain its operation and parts.	07
		OR	
Q.5	(a)	Explain Drawbar pull and Rimpull clearly.	07
	(b)	Explain Resource Allocation and Resource Scheduling.	07
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