320734(20)

B. E. (Seventh Semester) Examination, April-May 2021

(New Scheme)

(Civil Engg. Branch)

QUANTITY SURVEYING and COST EVALUATION

Time Allowed: Three hours

Maximum Marks: 80

Minimum Pass Marks: 28

Note: Attempt all questions. Part (a) from each question is compulsory. Attempt any two parts from part (b), (c) and (d) of each question.

Unit-I

1. (a) Write units of measurement for 4 items of works. 2

(b)	Name different method of estimates. Explain in brief
	centerline method.

7

7

7

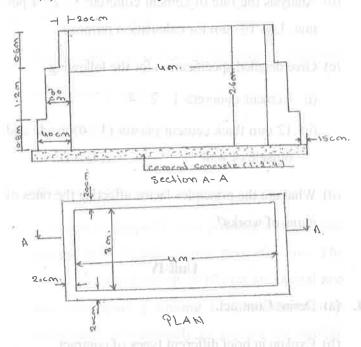
- (c) Explain a revised estimate and a supplementary estimate. State also the conditions under which they are prepared.
- (d) Write short notes on:
 - (i) Suspense account
 - (ii) Materials at site accounts
 - (iii) Indent of stoves
 - (iv) Measurement book

Unit-II

- 2. (a) What type of data is required for detaile estimate. 2
 - (b) Explain about following formulae to be used estimate for quantity of earthwork:
 - (i) Mid sectional area method
 - (ii) Mean sectional area method
 - (iii) Prismoidal formula method

- (c) Estimate the quantities of following items in underground masonry water tank as shown in figure:
 - (i) Earthwork
 - (ii) 1st class brick work in cement mortar 1:4
 - (iii) 20 mm internal plaster

7



(d) A road embankment is 20 m wide with side slope2: 1. The ground is level in transverse directions to the centre line. Calculate volume contained in the length of 350 m. The central height at 50 m intervals

	being 2.0, 3.5, 3.0, 4.0, 4.5, 3.0, 3.5 and 4.0 m		N.	(iii) Lic
	respectively.	7		(d) Discus
	Unit-III			advant
3.	(a) What is the purpose of analysis of rates?	2		
	(b) Analysis the rate of cement concrete 1:2:4 per			
	unit. Use 10 cum for calculation purposes.	7	5.	. (a) Define
	(c) Give detailed specification for the following:			(b) Explain
	(i) Cement concrete 1:2:4			(c) Write
	(ii) 12 mm thick cement plaster (1:6) inside and			(i) Ye
	outside of wall	7		(ii) Mo
	(d) What are the principles factor affecting the rates of			(iii) Le
	items of works?	7		(d) A leas
	Unit-IV			income
				owner
4.	(a) Define Contract.	2		also s
	(b) Explain in brief different types of contract.	7		accum
	(c) Discuss the following:	7		Detern
	all (i) Arbitration are affined as a support of			
	alay (ii) Escalation of latters of T much lands and			

		(iii) Liquidated damages	
	(d)	Discuss the different types of contracts with their advantages and disadvantages.	
		Unit-V	
5.	(a)	Define Sinking fund.	
	(b)	Explain different method of valuation of properties.	
	(c)	Write short notes on:	
		(i) Year purchase	
		(ii) Mortgage	
		(iii) Lease	
	(d)	A leasehold property is to produce a net annual	
		income of ₹ 12,000 for the next 30 years. The	
		owner expects a return of 8% on his capital and	
		also sets apart a sinking fund installments to	
		accumulate 6% annually to replace the capital.	~
40		Determine the value of the property.	