

Printed Page: 1 of 3 Subject Code: KCE503

QUANTITY ESTIMATION AND CONSTRUCTION MANAGEMENT TIME: 3 HRS M.M.

M.MARKS: 100

Note: 1. Attempt all Sections. If require any missing data; then choose suitably. SECTION A

1. Attempt *all* questions in brief.

 $2 \times 10 = 20$

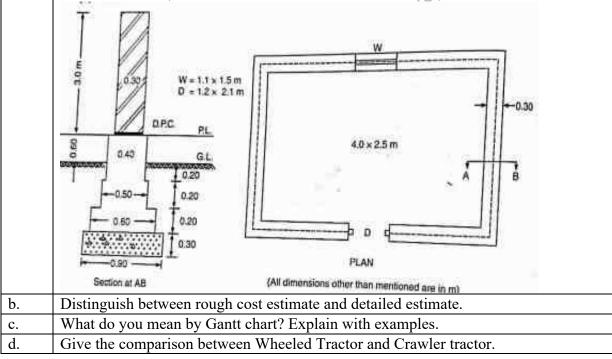
Q no.	Question
a.	Write the units for the following materials; (i) Slackest lime (ii) Wood (iii) Bricks
	(iv) W.C. tub
b.	Define supplementary estimates.
c.	Calculate cost of carriage of 50,000 bricks by bullock carts, from a distance of 7 km on kuchha road. The cart can make two trips per day and can carry 250 bricks per trip. The wages of bullock cart may be taken as Rs, 50.00 per day including driver.
d.	What are the purposes of rate analysis?
e.	Write the phases of project cycle.
f.	What is the principle of CPM analysis?
g.	Give the element of Owing cost.
h.	Write factors affecting the selection of tractors.
i.	Define with neat sketch of total cost curve.
j.	What do you mean by the financing of projects?
	SECTION B

SECTION B

10x3=30

2. Attempt any *three* of the following:

a. Figure shows a room of internal dimensions 4.0 m x 2.5 m. Calculate the quantities of the following items of work by center line method. (i) Earthwork in excavation in foundation (ii) Lime concrete in foundation (iii) Brick work in cement mortar (1:4) in foundation and plinth (iv) Brick work in cement mortar (1:6) in super structure (v) 2.5 cm thick D.P,C





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BTECH

(SEM V) THEORY EXAMINATION 2023-24

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3.

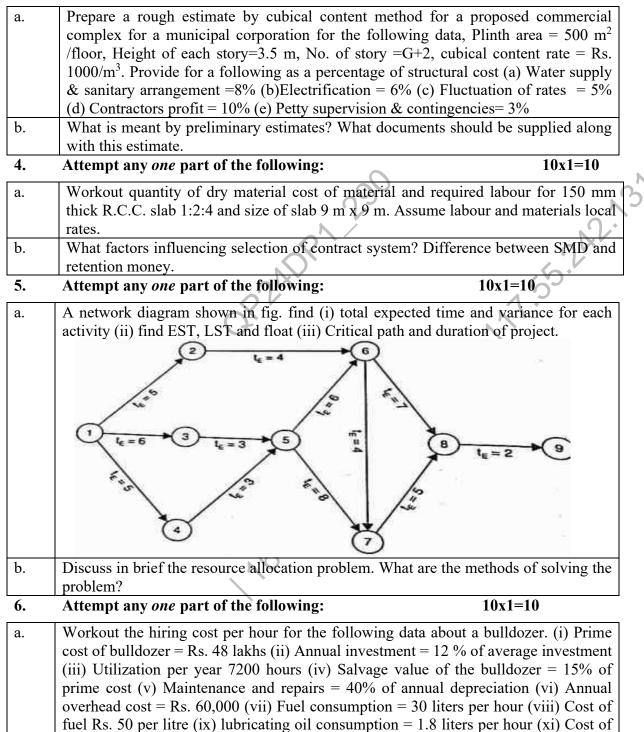
e. Explain break even cost chart with neat sketch. Alpha associates have the following details. Fixed cost = Rs. 20,00,000, variable cost per limit = Rs. 100, selling price per unit = Rs. 200 Find (i) The break-even sales quantity (ii) The break-even sales (iii) If the actual production quantity is 60,000 find (a) Contribution (b) Margin of safety

SECTION C

Attempt any one part of the following:

lubricating oil = Rs. 250 per liter

10x1=10



Q 11115 - 2 11DS



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b.	With neat sketch explain the concrete mix plant for ready mix concrete.
7.	Attempt any one part of the following:10x1=10
a.	A company has purchased equipment whose first cost is Rs. 100000 with an estimate life of eight years. The estimated salvage value of the equipment at the end of its life time is Rs. 20000. Determine the depreciation value and book value at the end of various years using the Sum of year's digits (SOYD) depreciation method.
b.	Define equivalence concept? Also write the principle of equivalence.

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