Construction Technology and Valuation

Course code	Course title	No. of period/week	Total no. of periods	Marks for Formative Assessment	Marks for Summative Assessment
C-401	Construction Technology and Valuation	04	60	20	80

Model Test Paper State Board of Technical Education and Training, A.P. Diploma in Civil Engineering (DCE)

		TRUCTION TECHNOLOGY AN	ND VALUATION
	Time: 90 Minutes		Maximum Marks: 40
		PART - A	16 Marks
Instruc			
	(i) Answer all questions		
	(ii) First question carries FOUR m		
	(iii) Remaining questions carries T	HREE marks.	
1.	(i) Which one of the following is an ini. Binding materialii. Fine aggregate	ngredient of concrete?	(C01)
	iii. Both (a) and (b)		
	iv. Neither (a) nor (b)		
	(ii) A is used to level the	e ground and spreads the loose	material. (C02)
	(iii)A Fire detector cannot detect the f	following,	(C03)
	i. Radiation		
	ii. Heat		
	iii. Light		
	iv. Smoke		
	(iv) Water cement ratio is defined as	the ratio of	(C01)
	i. Volume of water to vo	lume of cement	
	ii. Weight of water to we	ight of cement	
	iii. Volume of cement to v	volume of water	
	iv. Weight of cement to w	reight of water	
2.	Define workability.		(C01)
3.	State any one example of each of the (i) Excavation Equipment, (ii) Comp	• • • • • • • • • • • • • • • • • • • •	
4.	Define Daylight factor.		(C03)
5.	State any three causes of Fire.		(C03)

PART - B3 X 8 = 24 Marks

Instructions:

Time: 90 Minutes

- (i) Answer all questions
- (ii) Each question carries EIGHT marks.
- (iii) Answer should be comprehensive and the criterion for valuation is the content but not the length of the answer.
- 6. (A) Explain the procedure of Concrete Mix Design as per IS. (C01)

OR

- (B) Explain the relation between strength of concrete, workability and w/c ratio. (C01)
- (A) Explain the uses of any one excavation equipment and any one conveying 7. equipment. (C02)

OR

(B) Explain the uses of any one compaction equipment and any one hauling equipment.

(C02)

(C03)

Maximum Marks: 40

8. (A) Explain hot water supply distribution using solar water heating system with the help of circuit diagram. (C03)

OR

(B) Write any eight requirements of good lighting in building.

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Model Test Paper State Board of Technical Education and Training, A.P. Diploma in Civil Engineering (DCE)

Fourth Semester: C-401 CONSTRUCTION TECHNOLOGY AND VALUATION

PART – A

Unit Test – II

	PART - A	16 Marks	
Instructions:			
(i)	Answer all questions		
(ii)	First question carries FOUR marks.		
(iii)	Remaining questions carries THREE marks.		
1. (i)	Which of the following parameters does not affect the lift waiting time? I. Rated load II. Number of stops III. Door closing time IV. Handling capacity	(C03)	
(ii)	is the built-up covered area of a building measured at floor leverstory.	vel of any (C05)	

	(iii) is required to make out an estimate for a work.	(C03)
	(iv) The Earthquakeforce is a function of	(C04)
2.	Define the magnitude, intensity and energy release of an Earthquake	e. (C04)
3.	Define the terms value, cost and price.	(C05)
4.	What is a seismic zone? How many seismic zones INDIA is made of	? (C04)
5.	State the causes of fire.	(C03)
	PART – B	3 X 8 = 24 Marks
Instruc	 (i) Answer all questions (ii) Each question carries EIGHT marks. (iii) Answer should be comprehensive and the criterion for valuation not the length of the answer. 	is the content but
6.	(A) Explain about firefighting.	(C03)
	OR (B) Explain about air conditioning.	(C03)
7.	(A) Explain the seismic construction with brick stone masonry buildings codal provisions. OR	as per (C04)
8.	(B) Explain the seismic construction and ductile detailing as per codal pr	rovisions. (C04)
9.	(A) Explain the methods of valuation of buildings. OR	(C05)
	(B) Explain the methods of rent fixation of buildings.	(C05)

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Model Test Paper

State Board of Technical Education and Training, A.P. Diploma in Civil Engineering (DCE) Fourth Semester: C-401 CONSTRUCTION TECHNOLOGY AND VALUATION

<u>Time: 180</u>	Minutes	End Examinations	Maximum Marks: 80
Instructions: (i) (ii) (iii) fire	Answer all questions First question carries THI Answer should be brief as we simple sentences.	PART – A REE marks. nd straight to the point and shall n	$10 \times 3 = 30 \text{ Marks}$ ot exceed
1. State	any three grades of concre	te recommended for different type	es of work. (C01)
2. State	any three reasons for need of	of mechanization of construction v	work. (C02)
3. State	any three requirements of g	good electrical wiring.	(C03)
4. List a	ny three characteristics of e	earthquake.	(C04)
5. State	any three needs for valuation	on.	(C05)
6. List a	ny three methods of fixing	the rent of a building.	(C05)
7. State	any three causes of seismic	waves.	(C04)
8. List a	ny three fire extinguishers.		(C03)
	any one example each of the conveying equipment and (e following machinery, (a) crane, (c) Rollers.	(C02)
10. List a	ny three factors affecting va	ariability of concrete strength.	(C01)
Instructions: (i) (ii) (iii)	Answer any FIVE question Each question carries TE	N marks. ehensive and the criterion for valu	$10 \times 5 = 50 \text{ Marks}$ ation is the content but
11. Expla	in about 'Mirco concrete' a	and 'Shotcrete'.	(C01)
12. Expla	in uses of Clamshell and D	umpers.	(C02)
13. Expla	in about Natural ventilation	and Artificial ventilation.	(C03)
14. Expla	in about seismic zoning with	th the help of neat sketch.	(C04)

15. Explain the terms, (i) Depreciation, (ii) Sinking Fund and (iii) Annuity (C05)
16. Explain any two methods of valuation of a building. (C05)
17. Explain about Polymer concrete and Hot weather concreting. (C01)
18. Explain about firefighting. (C03)

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