Hall Ticket Number:

Code No.: 15143 S N

VASAVI COLLEGE OF ENGINEERING (AUTONOMOUS), HYDERABAD Accredited by NAAC with A++ Grade

B.E. (Civil Engg.) V-Semester Supplementary Examinations, June-2023 Construction Management and Administration

Time: 3 hours

Max. Marks: 60

Note: Answer all questions from Part-A and any FIVE from Part-B

Q. No.	-			f the question $(10 \times 2 = 20 \text{ Marks})$					
1.	List th	e functions	of Construction 1	- Aucston	1 1 1 1 1 1 1 1 1	M	L	CO	P
2.	Explai	n the roles o	of Construction	nanagement team.		2	1	1	1
3.	Explai	n an Activity	y and an Event.	lanagement team.		2	1	1	11
4.	What is	s the man	and an Event.			2	1	2	
5.	Evalois	b: purpos	e of introducing	he Dummy activity in any N	letwork	2	1	2	1,.1
j.	1	Direct and	indirect costs for	a construction project		2			1,1'
	DAPIAII	the Earned	value Manageme	ent indicators			2	3	11
	Explain	Tender Not	ice and Tender I	Ocument		2	2	3	11
.	List diff	erent types	of Construction (Ontracta		2	1	4	8,9
	Explain	Slack and S	urplus variables.	ontracts.		2	1	4	8,9
.	Differen	tiate betwee	n Graphical			2 :	2	5	1
			a Grapinear simp	lex method in Linear Progra	mming	2 1		5	1
a)	Different		Part-B (5 × 8	8 = 40 Marks)					1
	Organiza	tions along	en Line and with their suitabi	Staff Organization and F	unctional	4 1		,	
					- Cronar	7 1		1	11
a) E	Xplain th	no rules C	of Construction	Management.	-	4 2		1	11
	move 41	ie rules for (Constructing the	Network Diagram for a Proje	ect.	2 2		2	
/ 1 -	- with this	UCLWUTK MIA	Tram for 11. C 11	The state of the s	bles				1,11
	Activity D 1					6 3	2	2]	1,9,11
		Tietivity	Predecessor	Duration (Days)					
		A	- "	3					
		В	A	3					
		C	A	7					
		D	A	9					
	78.96	E F	D	5					
	-	G	B,C,E	6					
		Н	F	4	alex Til				
		I	F	13					
		1	G	10					

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a)	Explain th	e necessity	for Upda	ting in Co	nstructio	on mana	gement.		2	2	3	11
b)	Conduct of	rashing fo	r minimu	m cost and				data given.	6	4	3	1,9,11
	The Indirect cost is Rs. 250/- per day. Time (Day) Cost (Rs)											
		Activity	Normal	Crash	Norm	al	Crash					
		10-20	4	3	400		600					
		20-30	5	2	300	163775	750					
		20-40	7	5	360		540					
		30-40	4	2	500		1000					
. a)	Explain d	ifferent typ	oes of con	tracts in C	onstruct	ion Man	agemen	it.	5	2	4	8,9
b)	1	ne provisio							3	2	4	8,9
. a)	Colve the	a given li	near nroc	ramming	proble	m grap	hically:	Maximize X1&X2≥0.	5	3	5	1,2
1.		iate between						4	3	2	5	1,2
b)	1							giri Iano — i	3	2	1	11
i. a)	1	explain the									2	1, 11
b)	Construc	t the netwo	ork from the	he given ta	able and	find the	critical	path.	5	4	شد	1, 11
		Activ	ity Pre	decessor	to	tm	tp	Tree V P				
		A		-	10	16	20	2 10 10 20 1				
		В		A	7	10	20	3.21.2				
		C		A	5	7	8					
		D		В	15	18	21					
		Е		С,В	25	30	32					
	3	F		D	6	9	12					
		G		E,D	21	25	28					
		H		F,G	6	8	9					
	Anciliar	any two o	the lone	een Deterr	ninistic	and prob	abilistic	approach for	4	3	3	1
7. a	Explain network	analysis o	of an proje	ect.					1	2	Δ	1 (
а	Explain network Write s	analysis of the analysis of th	of an proje on safety	ect. measures	for hot b	itumino	us works	s. od: Maximize	4			1,9

M: Marks; L: Bloom's Taxonomy Level; CO; Course Outcome;

• ` `	Blooms Taxonomy Level – 1	22.5%
1)	Blooms Taxonomy Level – 2	40%
11)	Blooms Taxonomy Level – 3 & 4	37.5%
ii)	Blooms raxonomy bever see	
