Code No.: 18132 N/O

VASAVI COLLEGE OF ENGINEERING (AUTONOMOUS), HYDERABAD

Accredited by NAAC with A++ Grade

B.E. (Civil Engg.) VIII-Semester Main & Backlog Examinations, May-2023 Construction Management & Administration (PE-VI)

Time: 3 hours

Max. Marks: 60

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

Q. No.			Stem of the	question	M	· ·		
1.	What are t	he main objectiv	es of the Con	struction Management?	M	L	CO	P
2.	From the f	ollowing list che	Ose "Evente"	and "Activity".	2	1	1	11
	Survey of	site. Mans prepa	rad Intania	lesign started, Earthwork excavation, laying of footing, painting 1st coat	2	2	1	1
3.	Explain To	tal Float, Free F	loat for a Net	Work				
4.	Explain the	Explain Total Float, Free Float for a Network. Explain the Fulkerson's rules for numbering the nodes in any Network.				1	2	1
5.	Draw Direc	t cost Indirect of	ost and a t	ing the nodes in any Network.	2	2	2	1
	show on it t	he optimum dur	ation and min	ical total cost curve for a project and imum project cost.	2	1	3	1,11
6.	Explain the necessary.	e necessity of	Updating a	project and the when updating is	2	2	3	1,9,1
7.	Differentiate	e between Tende	er document a	nd Tender notice.				
8.	Explain the	causes of accide	nts on a const	ma Tender notice.	2	1	4	11
9.	Explain the	application of Li	near Drace	duction site.	2	1	4	11
10.	Explain the i	mportance of SI	ack and	ming.	2	1	5	2
		Portunee of Si	ack and surpl	us variables in Linear programming	2	2	5	2
11. a)	Evalain the	Par	$t\text{-}B\ (5\times 8=4$	10 Marks)				
				g an organizations for effective and	5	1	1	9,11
b)	Explain the F	unctions of Con	struction man	agement				
12. a)	What is a Wo	ork Breakdown	Structure? Sh	ow the WBS for construction of a	3	2	1	9,11
		The state of the s		그는 그들은 그들은 그들은 회사를 가는 것이 없는 것이 없다.	3	3	2	1,9
b)	Construct a M Float and dete	Network Diagramermine the critical	m from the g	iven activity. Calculate the Total network.	5	3	2	3
	Activity	Predecessor Activity	Duration (Days)					
	A	-	(Days)					
	В	-	10					
	C	-	8					
	D	A	10					
	Е	A	16					
	F	D,B	17					
	G	C	18					
	H	C	14					
	I	F,G	9					

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				- Candat	ing		3	1	3	9,11
b)	Find the	the steps in optimum cas 100/- pe	volved in the propost and time for r day.	the project giv	ren below. Cons	sider Indirect	5	3	3	2,3
	Node	Activity	Normal time (Days)	Crash time (Days)	Normal cost (Rs)	Crash cost (Rs)				
	1-2	A	4	2	400	500				
	1-3	В	8	5	800	980				
	1-3	C	3	2	600	700				
	2-5	D	10	6	500	600				
		E	8	6	800	950				
	3-5	F	7	4	700	1000				
	4-5	1:00	types of contrac	ts in Construct	tion Manageme	nt.	5	2	4	8,9,11,12
4. a)	Explai	n different	afety measures	to be adopted	at the time of c	lemolition of a	3	2	4	7,9
b)	1 '1 1'	in the						2	5	1
15. a)	Differ	entiate bet	tween Graphica	l method and	l simplex met	hod in Linear	3	3	5	1
13. a)	1 -						1	3	5	2,3
b	Solve	the given	inear programm subjected to 5X	ing problem b	by Simplex met $+X_2 < 50$. X_16	$X_2 \ge 0$.				
	7 = 5	$0X_1 + 15X_2$	subjected to 3A	TA2 = 100, 11	1 ,		4	1	1	8,9
16. a) Expla	in the resp	onsibilities of m	embers in con-	athod of Netw	ork techniques.	4	2	2	1,5
b			ces between CPI		nemou of free	1				
	Ansv	ver any two	of the following	g:			4	2	3	11
8	a) Write	e a short no	te Earned Value	Management			4	2	4	8,9,12
1	e) Expl	ain the mai	n conditions of a	a construction	contact.			3	5	2,3
		2	linear programm subjected to X1-	ning problem	by graphical me	ethod: Maximize $2 \ge 0$.	4			

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

J. D. O O	Taxonomy I aval - 1	30%
	Blooms Taxonomy Level – 1	38.75%
)	Blooms Taxonomy Level – 2	31.25%
i)	Blooms Taxonomy Level – 3 & 4	
