QP Co	ode: RD17001057 Reg. No	AR 17
3		JTONOMOUS GUNUPUR – 765022 aminations, December – 2020
		enth Semester)
	Saulas VSC	N COSTING AND PROFESSIONAL
Σ	P	RACTICE
		ll Engineering)
Ti	me: 2 hrs	Maximum: 50 Marks
	The figures in the right hand m	argin indicate marks.
PA	ART – A: (Multiple Choice Questions)	(1 x 10 = 10 Marks)
0.1.	Answer ALL questions	
a.	The brick work is measured in sq.metre, in case	of
	(i) Honey comb brick work	(ii) Brick flat soling
	(iii) Half brick walls or the partition	(iv) All the above
b.	The concrete work for the following part of the	building of specified thickness is measured
	in square meters	
	(i) Root slabs	(ii) Floors
	(iii) Wall panels	(iv) All the above
c.	The 'centre line method' is specially adopted for	-
	(i) Circular buildings	(ii) Hexagonal buildings
A	(iii) Octagonal buildings	(iv) All the above
d.	Pick up the incorrect statement from the followi (i) The built up covered area at the floor level	-
	any storey of a building is called plinth area	rooms of any storey of a building is
		called carpet area
	(iii) The carpet area of a building along with an	
	of its kitchen, pantry, store, lavatory, bath roo	m
2	and glazed veranda, is called floor area	
e.	Carpet area does not include the area of (i) The walls along with doors and oth	er (ii) Bath room and lavatory
	openings	(ii) Dath footh and favatory
	(iii) Kitchen and pantry	(iv) All the above
f.	Pick up the correct statement from the following	5.
	(i) The incidental expenses of a miscellaneo	us (ii) Additional supervising staff
	character which could not be predicted durin	• • •
	preparation of the estimate, is call- contingencies	ed charged establishment
	(iii) Detailed specifications specify qualities	$(iv) \Delta II the above$
	quantities and the proportions of materials to	
	used for a particular item	
g.	According to ISI method of measurement, the o	rder of the sequence is
	(i) Length, breadth, height	(ii) Breadth, length, height
	(iii) Height, length, breadth	(iv) None of these
h.	The most reliable estimate is	
	(i) Detailed estimate	(ii) Preliminary estimate
	(iii) Plinth area estimate	(iv) Cube rate estimate
i.	The difference between the maximum time	
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perform an activity is known as

- (i) Free float
- (iii) Total float
- j. According to the time estimates made by the PERT planners, the maximum time that would be needed to complete an activity is called as

(ii) Independent float

(ii) Optimistic time estimate

(iv) Expected time estimate

(iv) Half float

- (i) The most likely time estimate
- (iii) Pessimistic time estimate

PART – B: (Short Answer Questions)

Q.2. Answer ALL questions

- a. Name the types of Estimate.
- b. State E-tender.
- c. Define the term arbitration
- d. What is rental method of valuation?

PART – C: (Long Answer Questions)

e. Mention the advantages of PERT in project management.

Answ	er ANY FIVE que	estions								Marks
3.	Calculate the Qua	antity of Ma	aterial for							(6)
	(i) RCC (1:2:4) f	For 20 m^3 of	work							
	(ii) RCC (1:3:6)	for $15 \text{ m}^3 \text{ or}$	f work							
4. 5.	Prepare bar be R.C.C(1:2:4) linte Total Length of the Thickness of wall Thickness of linte Main reinforcement 2 uniformly Write about purp	el as per dat he lintel inc l = 400 mm el = 150 mm ent 5 bars bars of 10	ta given bel luding bear ; n; of 12 mm) mm ø;6	ow: ing=1.50 p ø (out of	m; which 2 b	ars are b	ent up nea	r suppo	ort). Top	(6)
	Write about purp	•								(6)
6.	Write detailed sp	ecifications	for Reinfor	rced cemer	nt concrete	e (1:1 ¹ / ₂ :	3) for slab.			(6)
7.	How do you ca banking, fully in					the gro	ound surfac	the for	fully in	(6)
8.	Calculate the rate mm for RCC wor				÷		ips from 20	mm do	own to 6	(6)
9.	Following are the and minimum pro			of a proje	ct. Draw tl	he netwo	rk and find	the crit	ical path	(6)
	Activity	Α	В	C	D	E	F	G		
	Dradacassors			Δ	B	B	CD	F	1	

Activity	A	Б	C	D	Ľ	1.	U
Predecessors	-	-	А	В	В	C,D	E
Duration (weeks)	11	7	9	13	8	8	9

 $(2 \times 5 = 10 \text{ Marks})$

(6 x 5 = 30 Marks)

Activity	Predecessor	Duration	n (Days)	Cost (Rs)		
		Normal	Crash	Normal	Crash	
А	-	6	4	5000	6800	
В	А	10	7	4000	7750	
С	А	12	8	5000	8000	
D	В	8	4	7000	8400	
E	C	6	3	5000	6950	
F	D,E	4	2	7000	7500	

10. Crash the given network using the details given in table and find the optimum cost and least (6) project duration.

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