University of Mumbai

Program: Civil Engineering Curriculum Scheme: Rev2016 Examination: BE Semester: VII

Course Code: CE-C701 and Course Name: Quantity Surveying Estimation & Valuation
Time: 2 hour 30 minutes

Max. Marks: 80

Q1.	Choose the correct option for following questions. All the Questions are compulsory and carry equal marks			
1.	A valuer shall act with objectivity in his professional dealings by ensuring that his			
1.	decisions are made			
OptionA:	without the presence of any bias			
OptionB:	with coercion			
OptionC:	with confidence			
OptionD:	with undue influence of any party			
2.	Which is correct			
OptionA:	proposal + acceptance= promise			
OptionA:	promise +consideration= agreement			
OptionC:	agreement + enforceability= contract			
OptionD:	agreement+ acceptance= proposal			
Орионд.	agreement acceptance proposal			
3.	Technical sanction is initiated after			
OptionA:	Technical approval			
OptionB:	Administrative approval			
OptionC:	Budget approval			
OptionD:	PWD approval			
4.	Which of the following piece of land would command higher rate of land value in			
	the			
	residential zone?			
OptionA:	Having frontage to depth ratio as 2.0			
OptionB:	Having frontage to depth ratio as 6.0			
OptionC:	Having frontage to depth ratio as 0.2			
OptionD:	Having frontage to depth ratio as 0.6			
5.	In long and short wall method of estimation, the length of long wall is the			
	Centre-to-Centre distance between the walls and			
OptionA:	Breadth of the wall			
OptionB:	Half breadth of wall on each side			
OptionC:	One fourth breadth of wall on each side			
OptionD:	Complete width of wall			
6.	The assumption on which the trapezoidal formula for volumes is based, is			
Option A:	The end sections are non-parallel planes			

Option B:	The mid area of the pyramid is 1.5 times the average area of the ends.				
Option C:	The volume of the Prismoidal is over estimated and hence a Prismoidal correction				
	is Applied				
Option D:	They are Parallel planes				
7.	Before accepting the tender, it is required to check by the process of				
Option A:	Arbitration				
Option B:	Scrutiny				
Option C:	Acceptance of proposal				
Option D:	Rejection of proposal				
8.	For 100 sq.m cement concrete (1:2:4) 4cm thick floor, the quantity of cement				
	required				
	Is				
Option A:	0.9 cu.m				
Option B:	0.94 cu.m				
Option C:	0.99 cu.m				
Option D:	1.0 cu.m				
9.	Which one of the following is not a correct method of Alternate Dispute				
	Resolution?				
Option A:	Legislation				
Option B:	Mediation				
Option C:	Conciliation				
Option D:	Negotiation				
10.	Amount of compensation payable to owner or department by contractor due to				
	delay in				
	construction is known as				
Option A:	Price variation				
Option B:	Liquidity damage				
Option C:	Defect liability				
Option D:	Escalation amount				

Q2. (20 Marks)	Solve any Four out of Six 5 marks each Please delete the instruction shown in front of every sub question
A	Belting Method of valuation
В	CBRI method
С	Free hold and Lease hold property
D	Differentiate between Cost, Price and Value
E	Explain types of values.
F	Explain Tender Notice

Q3	Solve any Two Questions out of Three 10 marks each											
(20												
Marks)												
A	Calculate the quantities of earthwork for portion of a road for a length of 300m with the following data.											
	Chainage (m)	0	30	60	90	120	150	180	210	240	270	300
	Ground level	131.1	131.2	130.9	131.2	130.8	130.7	130.6	130.4	129.1	129.5	129.7
	The formation level at chainage '0' is 130.0 and the road is in a rising gradient of 1in 150. The width of formation level is 10 m and the side slopes is 1.5:1 in embankment and 1:1in cutting. Also calculate the cost of this earthwork in banking and cutting, assume suitable rates and draw the profile diagram.							:1in				
В	A person has purchased a plot of land costing Rs. 7,00,000/- and has constructed a building there on at a cost of Rs. 20,00,000/- Allowing a net return @8.5% on cost of construction and @ 5% net return on the cost of land work out standard rent of the property with the following data:- i)Sinking fund on 4% basis for the future life of 80 years=0.0022 ii)Annual maintenance =0.5% of cost of construction iii) Municipal taxes and other outgoings= 28.5% of gross rent iv) Scrap value at the end of the useful life of the building as 10%											

Q4.								
(20 Marks)								
A	Attempt any Two 5 marks each							
i.	Explain Bar Bending Schedule.							
ii.	Explain Detailed Estimate.							
iii.	What are General Specifications?							
В	Solve any One 10 marks each							
i.	Draft a tender notice for construction of a sky walk. Estimated cost of construction is Rs.10 Cr. And time of construction is 6 months.							
ii.	Work out the quantities from given plan & section							
	a) UCR Masonry in CM (1:5) for foundation							
	b) 1 st class Brick Masonry in CM (1:4) in superstructure							
	c) RCC quantity for slab in M25 grade of concrete							
	d) Net quantity of 12mm thick internal plaster in CM (1:4)							
	All dimensions are in meters. a) Chajja thickness-80mm b) Chajja projection-50mm Schedule Of Doors And Windows D 1.2 x 2.1m D1 0.9 x 2.1m W 1.5 x 2.1m							
	W. Room 1 Room 2 W 3.60							
	W 4.0 x 4.2m 3.6 x 4.2m W 2.1c 2.1c 2.1c 2.1c 2.1c 2.1c 2.1c 2.1c							