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GIET UNIVERSITY, GUNUPUR – 765022

B. Tech (Fourth Semester – Regular) Examinations, June – 2021
BESAG4080 – BUILDING CONSTRUCTION AND COST ESTIMATION
 (Civil Engineering)

Time: 2 hrs

Maximum: 50 Marks

Answer ALL Questions

The figures in the right hand margin indicate marks.

PART – A: (Multiple Choice Questions)

(1 x 10 = 10 Marks)

Q.1. Answer ALL questions

	[CO#]	[PO#]
a. _____ lintels consist of pieces of timber which are placed across the opening.	1	1
(i) Timber (ii) RCC		
(iii) Steel (iv) Brick		
b. The usual concrete mix for RCC lintel is _____ (cement : sand : aggregate).	1	1
(i) 1:2:3 (ii) 1:2:4		
(iii) 1:4:8 (iv) 1:3:6		
c. Soda-lime glass is also known as _____	1	1
(i) Hard-glass (ii) Soft-glass		
(iii) Potash-glass (iv) Lead-glass		
d. Due to _____ the dampness finds its way to the floors through the substructure.	2	1
(i) Action of rain (ii) Exposed tops of walls		
(iii) Raising of moisture from ground (iv) Condensation		
e. Lime is obtained from the calcination of _____	2	1
(i) Lime-silica (ii) Sandstone		
(iii) Limestone (iv) Lime-concrete		
f. The rate of an item of work depends on _____	3	1
(i) Specifications of works (ii) Specifications of materials		
(iii) Proportion of mortar (iv) All of the above		
g. The plinth area of a building not includes _____	3	1
(i) Area of the walls at the floor level (ii) Internal shaft for sanitary installations up to 2 sq m. in area		
(iii) Lift and wall including landing (iv) Area of cantilevered porch		
h. The process of evaluating cost of construction of a project is _____	3	1
(i) estimate (ii) rough cost		
(iii) actual cost (iv) workable cost		
i. Which of the following data is not required to prepare an estimate?	4	1
(i) Amplitude (ii) Drawings		
(iii) Specifications (iv) Rates		
j. A revised estimate is prepared if the sanctioned estimate exceeds _____	4	1
(i) 2% (ii) 5%		
(iii) 8% (iv) 10%		

PART – B: (Short Answer Questions)**(2 x 5 = 10 Marks)**Q.2. Answer **ALL** questions

	[CO#]	[PO#]
a. Name four methods of quarrying?	1	1
b. Bring out various sources of lime?	2	1
c. Give details of lime plastering?	2	1
d. Give details of plinth area estimate?	3	1
e. What are the disadvantages of payback period?	4	1

PART – C: (Long Answer Questions)**(6 x 5 = 30 Marks)**Answer **ANY FIVE** questions

	Marks	[CO#]	[PO#]
3. What are various uses of stones?	6	1	1
4. What are the various functions of cement ingredients?	6	1	1
5. Explain various methods of damp proofing?	6	2	1
6. What is the purpose of plastering?	6	2	1
7. Briefly explain various types of pointing?	6	3	1
8. What are the factors affecting building costs?	6	3	1
9. List out the functions of cost estimation?	6	4	1
10. Explain net present value method?	6	4	1

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