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GIET UNIVERSITY, GUNUPUR – 765022

B. Tech (Eight Semester – Regular) Examinations, April– 2024

BPECV8010 - Construction Management

(Civil)

Time: 3 hrs

Maximum: 70 Marks

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.	For the supply of materials for concrete, form work reinforcing and placing of concrete, removal of form work and curing of concrete, number of bar(s) required on bar chart, is (i) 1 (ii) 2 (iii) 3 (iv) 4	CO1	PO1
b.	For the execution of a project, a contractor is (i) a person (ii) a firm (iii) an agency (iv) all the above .	CO2	PO1
c.	Pick up the correct statement from the following: (i) The difference of latest occurrence time and earliest expected time, is called slack (ii) The activities connecting the events having zero slack, lie on the critical path (iii) The critical path consumes the maximum time (iv) All the above.	CO3	PO1
d.	The first stage of a construction, is (i) initiation of proposal (ii) survey of the site (iii) preparation of estimate (iv) preparation of tender	CO2	PO2
e.	Residential buildings are treated as (i) light construction (ii) heavy construction (iii) Industrial construction (iv) private construction.	CO2	PO2
f.	PERT analysis is based on (i) optimistic time (ii) optimistic time (iii) most likely time (iv) all the above .	CO3	PO1
g.	For completion of a project, the critical path of the network represents (i) minimum time (ii) maximum time (iii) maximum cost (iv) minimum cost.	CO4	PO1
h.	Power stations are generally treated as (i) industrial construction (ii) heavy construction (iii) light construction (iv) electrical construction.	CO3	PO1
i.	Frequency distribution curves (i) having a single lump, are called uninodal curves (ii) if symmetrical, are called normal curves (iii) if not symmetrical, are called skew curves (iv) all the above .	CO4	PO1
j.	Pick up the correct statement from the following: (i) Programme Evaluation and Review Technique, is event oriented (ii) Programme Evaluation and Review Technique is not event oriented (iii) Critical Path Method is event oriented (iv) Critical Path method is event oriented.	CO4	PO2

PART – B: (Short Answer Questions)**(2 x 10 = 20 Marks)**Q.2. Answer **ALL** questions

	[CO#]	[PO#]
a. Name the equipment's needed for compacting concrete.	CO1	PO1
b. Define CPM.	CO1	PO1
c. Define PERT.	CO1	PO1
d. What is the use of rear dump trucks?	CO2	PO2
e. What is the use of a bottom dump truck?	CO2	PO2
f. Explain the advantages of small trucks in the construction field.	CO2	PO2
g. Explain the disadvantages of small trucks in construction field	CO3	PO1
h. Explain the advantages of large trucks in the construction field.	CO3	PO1
i. Explain the disadvantages of large trucks in construction field	CO4	PO1
j. Differentiate between normal time and crash time.	CO4	PO1

PART – C: (Long Answer Questions)**(10 x 4 = 40 Marks)**Answer **ALL** questions

	Marks	[CO#]	[PO#]
3. a. Define management. Explain functions and principles of management. (OR)	10	CO1	PO1
b. What are the objectives and functions of construction management?	10	CO1	PO1
4. a. Write short note on Placing of concrete and formwork (OR)	10	CO2	PO2
b. What are the charts? Briefly describe about any one type of chart	10	CO2	PO2
5. a. Write in detail about quality control and safety engineering. (OR)	10	CO3	PO1
b. Describe the steps involved in project scheduling	10	CO4	PO1
6. a. Describe the various applications of a bulldozer.	5	CO4	PO1
b. Name the equipment needed for compacting concrete and explain their uses in brief? (OR)	5	CO1	PO1
c. Describe about the techniques used for project management	5	CO1	PO1
d. What is a project? Explain the various characteristics of a project.	5	CO2	PO2

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