

Total No. of Question : [4]

Registration No. : 

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**Programme Name : Bachelor of Civil Engineering**  
**Regular T.Y.B.Tech. Sem. VI ESE May / June 2023**  
**VI SEMESTER ( 2020 BATCH)**  
**201CEL322-Management of Civil Engineering(TH)**

Duration : 2 Hours

Marks : 50

Instructions :

(Q1) All Questions are compulsory [20.0]

(1.1) Explain Line and Staff organisation with its advantages and disadvantages. [6.0]

**CO :- 322.1**

**Blooms Taxonomy :- Apply**

(1.2) Compare the following equipments by using EUAC method. Suggest which equipment will be purchase if rate of interest is 9%. [8.0]

	Equipment A	Equipment B
Initial Cost (Rs)	3,50,000	3,10,000
Annual O & M cost (Rs)	5,500	4,300
Salvage Value (Rs)	18,000	12,000
Life in years	8	8

**CO :- 322.1**

**Blooms Taxonomy :- Apply**

(1.3) List the various types of Contracts. Explain any one in details. [6.0]

**CO :- 322.2**

**Blooms Taxonomy :- Apply**

(Q2) All Questions are compulsory [10.0]

(2.1) Draw the network, determine critical path, project duration and all types of floats by using following data [7.0]

Activity	1 - 2	2 - 3	2 - 4	3 - 5	4 - 5	5 - 6
Duration in days	5	3	8	7	4	8

**CO :- 322.3**

**Blooms Taxonomy :- Apply**

(2.2) Differentiate between CPM and PERT. [3.0]

**CO :- 322.3**

**Blooms Taxonomy :- Apply**

**OR [ 2.2 / 2.3 ]**

(2.3) What is PERT system? Where it is used. [3.0]

**CO :- 322.3**

**Blooms Taxonomy :- Apply**

(Q3) All questions compulsory [10.0]

(3.1) What are various causes of accidents on construction sites? [5.0]

**CO :- 322.4**

**Blooms Taxonomy :- Understand**

(3.2) Explain risk identification process in construction projects. [5.0]

**CO :- 322.4**

**Blooms Taxonomy :- Understand**

**OR [ 3.2 / 3.3 ]**

(3.3) Explain risk mitigation process of construction projects. [5.0]

**CO :- 322.4**

**Blooms Taxonomy :- Understand**

(Q4) All questions are compulsory [10.0]

(4.1) Explain any five factors considered while selecting a construction equipments. [5.0]

**CO :- 322.4**

**Blooms Taxonomy :- Understand**

**OR [ 4.1 / 4.2 ]**

(4.2) Explain working of Scraper with neat sketch. [5.0]

**CO :- 322.4**

**Blooms Taxonomy :- Understand**

(4.3) A construction company requires 1200 tons of steel every year. Cost of steel is Rs. 60,000 per ton. It requires Rs.120 to place order once. if inventory carrying cost is 8 % of average inventory investment. Determine EOQ and frequency of placing orders? [5.0]

**CO :- 322.4**

**Blooms Taxonomy :- Understand**

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