

Reg. No.



MANIPAL INSTITUTE OF TECHNOLOGY

MANIPAL

(A constituent unit of MAHE, Manipal)

I SEMESTER M.TECH. (Construction Engineering & Management)

END SEMESTER EXAMINATIONS February-March 2021

SUBJECT: CONSTRUCTION MANAGEMENT INFORMATION SYSTEMS [CIE-5155]

Date of Exam: 01/03/2021

Duration: 3 Hours

Max. Marks: 50

Instructions to Candidates:

- ❖ Answer ALL the questions
- ❖ Answer precisely and to the point.

1A.	Draw the flow diagram of Herbert Simon model of Decision making. In relation to Construction Project Life Cycle explain Intelligence phase	05	C01
1B.	Explain Information Life Cycle and Mapping of Information	05	C02
2A.	According to Contract agreement, each day's Shortage of labor has to be notified to Contractor at the end of every week. As an Information What is Missing following Notice issued to contractor (Processed Data)? Produce Correct Information format. Notice: <i>According to Contract, total of 56 labor shortage is brought to your notice. Action will be taken according to Contract</i>	05	C02
2B.	What is Decoupling? Explain with a construction Engineering example Slack Resources method	05	C03
3A.	You are part of a PMC team. A construction organization has been offered a project contract to build a 20 floors commercial complex at a site which is in the busy commercial area of a city. The target duration of completion is 12 months. Before going into contractual agreement with the client firm, contracting organization wants consultancy as to whether project could be completed within time constraint proposed? if not what are the reasons which may cause delay? <i>List the possible Variety which contribute to delay and possible responses to control it.</i>	05	C03
3B.	What is Prototyping? Explain with a construction engineering example Low fidelity Prototyping	05	C04
4A.	What is a Database? What are the advantages of Database?	04	C05
4B.	Draw the neat block diagram of Transaction Processing Cycle. Explain Transaction Recording and Validation stage	06	C05
5A.	Draw the neat Block diagram of DBMS. Explain the components.	06	C05
5B.	Explain with an example following methods of Transaction validation (i) Missing Value (ii) Valid size of the term	04	C05