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GIET UNIVERSITY, GUNUPUR – 765022

M. Tech (First Semester – Regular) Examinations, June – 2021
MPCCT1020- QUALITY & SAFETY IN CONSTRUCTION
 (Construction Technology and Management)

Time: 2 hrs

Maximum: 50 Marks

The figures in the right hand margin indicate marks.

PART – A**(2 x 10 = 20 Marks)**Q1. Answer **ALL** questions

- a. Why does the sample standard deviation is preferred over the population standard deviation in the statistical quality assurance for construction materials.
- b. What do you infer by the term “tolerance” in material specification for construction projects?
- c. Write a short note on the Accident-Proneness Theory.
- d. Does the chain-of-events theory place the blame for accidents on management?
- e. What do you mean by OSHA regulations in construction safety?
- f. Criticize the “Substance Abuse Programs”.
- g. Construct an accident reporting process for minor welding works in a construction project.
- h. Recall the zero-accidents concept or policy in a heavy construction company.
- i. Criticize the Governments’ intervention in the construction safety considerations.
- j. Write a short note on the safety clauses in the international contract or agreements.

PART – B**(6 x 5 = 30 Marks)**Answer **ANY FIVE** questions**Marks**

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| 2. Elaborate the four pillars of TQM with neat illustrations. | (6) |
| 3. Explain in brief the implications of statistical quality assurance for any two building materials. | (6) |
| 4. Discuss about any five major causes of injuries in a construction project. | (6) |
| 5. Explain in detail the role of middle managers in the implementation of safety in the organization. | (6) |
| 6. Prepare a detailed checklist for safety audit of a reinforcement bar manufacturing unit. | (6) |
| 7. Discuss in brief any two governing laws regarding safety in construction projects in India. | (6) |
| 8. Criticize the role of safety committees in ensuring safety practices and identifying violations in a mega construction project. | (6) |

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