

Code No: 154AF

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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

B. Tech II Year II Semester Examinations, November/December - 2020

BASIC MECHANICAL ENGINEERING FOR CIVIL ENGINEERS

(Civil Engineering)

Time: 2 hours

Max. Marks: 75

Answer any Five Questions
All Questions Carry Equal Marks

1. Explain different profiles of cam and followers with neat sketches. [15]
2. Explain the function of riveted joint and different types of riveted joints. [15]
3. Draw the line diagrams of different gear trains and explain their working. [15]
4. With the help of schematic diagram, explain the working details of belt conveyors and cranes. [15]
5. Draw the line diagram and explain the working of Air refrigeration system. [15]
6. Write the three basic equations of heat transfer modes and explain the composite wall and other applications of heat transfer. [15]
7. What are the welding methods available? Explain the working of them with line diagrams. [15]
8. What are the techniques adopted for the grinding operation? What are the materials used in preparing the grinding wheel? [15]

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