

Code No: 155SA

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

B. Tech III Year I Semester Examinations, February - 2022

BASIC MECHANICAL ENGINEERING FOR CIVIL ENGINEERS

(Civil Engineering)

Time: 3 hours

Max. Marks: 75

Answer any five questions  
All questions carry equal marks

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1. What is the function of cam? List out and explain various types of cams and followers. [15]
2. What is the purpose of riveted joints? Explain how efficiency of riveted joints is estimated. [15]
3. Explain the following terms:  
a) Module  
b) Pitch Circle  
c) Gear Ratio  
d) Dedendum  
e) Backlash. [3+3+3+3+3]
4. Explain about industrial trucks and bull dozers. [15]
5. What are various advantages, disadvantages and applications of internal combustion engines? [15]
6. Explain the basic laws of heat transfer and applications of heat transfer. [15]
7. Explain various applications, advantages and disadvantages of any two sheet metal working operations. [15]
8. Explain various operations that can be performed on a lathe machine. [15]

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