



ACE Engineering College

(An Autonomous Institution)

Question Paper Code:

CE402ES

ACE-R20

Semester End Examination
II B. Tech- II Semester- AUGUST -2022
Basic Mechanical Engineering for Civil Engineers

CIVIL ENGINEERING

Time: 3 Hours

Max. Marks: 70

H. T. No

Answer any 5 Questions out of 8 Questions from the following

Q.No	Question	Marks
1.	Explain various types of cams and followers with neat sketches.	14
2.	What do you understand by power transmission? What are its primary elements? Explain various methods of power transmission in detail.	14
3. a)	What is the necessity and application of refrigeration systems?	7
b)	What are modes of heat transfer and explain with examples.	7
4. a)	Define refrigeration and refrigeration effect. What are the properties of a refrigerant.	7
b)	State the advantages of V belt drive over Flat belt drive.	7
5. a)	Discuss the types of failure of riveted joints.	7
b)	Distinguish between spur, helical & worm gear.	7
6. a)	Explain working principle of gas cutting.	7
b)	List types of welding defects. Explain the reasons for such defects and suggest suitable remedies	7
7. a)	What is a sheet metal work? List the basic hand tools used in sheet metal work and explain any one sheet metal work process.	7
b)	Classify welding processes and explain different types of weld joints.	7
8. a)	What are the specifications of a Lathe machine? Briefly explain working of lathe machine.	7
b)	Discuss about various milling operations.	7