AJEET SONI

Roll	No.	

Total No. of Questions: 8]

[Total No. of Printed Pages: 3

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B.Tech. IInd Semester (CSE, IT. & Elect.)

Examination, 2023-24

Basic Civil Engineering &

Engineering Mechanics

Paper - BE-204

Time: 3 Hours

[Maximum Marks: 60

Note: - Attempt any five quesitons.

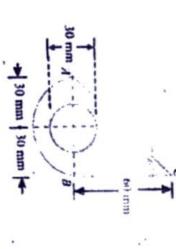
 (a) Explain the concept of forces in engineering mechanics, highlighting different types of forces and their effects.

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(1)

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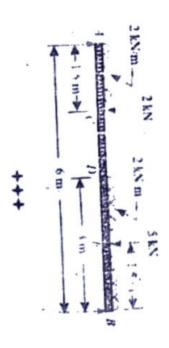
- and dynamics Discuss the laws of friction and their significance in statics
- (a) Explain the principles of power transmission in mechanical systems
- ਭ State and prove parallelogram law of forces.
- 3. Find the moment of inertia of the lamina with a circular hole of 30 mm diameter about the axis AB as shown in Fig.



- (a) List and explain the different types of building construction

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- 3 Explain how the choice of construction material the overall durability of a structure.
- (a) Explain the significance of foundations in the construction process.
- 3 What are the accessories used in chain surveying.
- Discuss the types of surveying methods and their applications
- 3 Explain the concept of leveling in surveying
- 7 (a) State the properties of cement concrete
- Illustrate the Uses of Stones
- Draw the Shear force diagrams and Bending moment diagrams.



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