

Code No: 53051

R09

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

B.Tech II Year I Semester Examinations, October - 2020

MECHANICAL TECHNOLOGY

(Mining Engineering)

Time: 2 hours

Max. Marks: 75

Answer any five questions  
All questions carry equal marks

- 1.a) How the cams and followers are classified and mention their advantages and applications?
- b) How the cam profile is constructed with roller follower taking uniform acceleration and retardation? [8+7]
- 2.a) What is velocity ratio, slip and creep in the belt?
- b) Two parallel shafts 3m apart are to be connected by an open belt to have a velocity ratio of 5. The pulley on the quick running shaft is 15cms diameter. Find the length of belt required to transmit the power without slip. [7+8]
- 3.a) Define the terms module, pressure angle addendum and dedendum.
- b) Sketch and explain the construction and working of worm and worm gearing. [6+9]
4. Sketch and explain the working of spur and bevel gears and mention their applications. [15]
- 5.a) Derive an equation to find the air standard efficiency of otto cycle and mention the assumptions made.
- b) Sketch and explain the working of two stroke cycle engine and mention the advantages and applications. [7+8]
- 6.a) What are the various methods of cooling of an I.C. engine and explain about air-cooling.
- b) Sketch and explain working of simple carburettor and mention its advantages. [7+8]
- 7.a) What are the various types of air compressors used in practice and mention their relative advantages and applications?
- b) What are the advantages of multi stage air-compressors over single stage compressors? [7+8]
- 8.a) What are the various problems occurred in the distribution system of compressed air and mention their causes and remedies?
- b) What are the advantages and applications of compressed air in the coal mines? [8+7]

# Mechanical Technology Midyear Question Papers Grade11

**H Kauffman**



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