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APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY

SIXTH SEMESTER B.TECH DEGREE EXAMINATION(R&S), MAY 2019

Course Code: ME306

Course Name: ADVANCED MANUFACTURING TECHNOLOGY

Max. Marks: 100

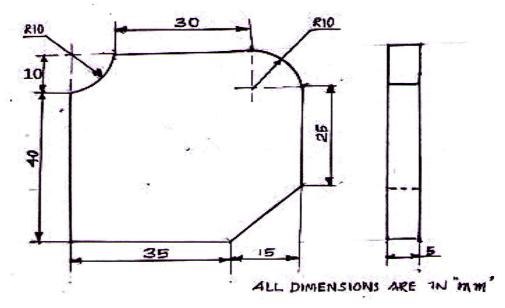
PART A

Answer any three full questions, each carries 10 marks.

Marks

Duration: 3 Hours

- 1 a) What are the different methods of atomization for making metal powders in (6) Powder metallurgy?
 - b) What are the advantages of Powder metallurgy? (4)
- 2 a) Write a Manual Part Program for the given figure. (6)



- 3 a) Write any Five preparatory function code in manual part programming and its (5) explanation
 - b) Write any two methods of specifying a line in an APT language. (5)
- 4 a) Explain the different stages of sintering process in Powder metallurgy with a neat (6) sketch
 - b) Differentiate the impregnation and infiltration process in Powder metallurgy (4)

PART B

Answer any three full questions, each carries 10 marks.

- 5 a) Write the working principle of Abrasive Jet Machining with neat figure. (5)
 - b) What are the process parameters in Abrasive Water Jet Machining? (5)
- 6 a) What are the characteristics of Electro Discharge Machining (EDM)? (6)

Explain the Magnetic Float Polishing with neat figure

b) Describe the Laminated Object Manufacturing Process.

Explain the laser welding process

Write any six material addition process in Additive Manufacturing

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a)

(7)

(3)

(5)

(5)