

Please check that this question paper contains \_\_\_\_\_ questions and \_\_\_\_\_ printed pages within first ten minutes.

[Total No. of Questions: 09]

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Uni. Roll No. ....

Program: **B.Tech.**

Semester: **4<sup>th</sup>**

Name of Subject: **Modern Manufacturing Processes**

Subject Code: **PCME-109**

Paper ID: **16199**

27-01-2022(M)

**Time Allowed: 02 Hours**

**Max. Marks: 60**

**NOTE:**

- 1) Each question is of 10 marks.
- 2) **Attempt any six questions** out of nine
- 3) Any missing data may be assumed appropriately

Q.1. How non traditional machining processes can be classified? Also discuss the Flexible Manufacturing System.

Q.2. What are the various aspects to be considered before selecting a Modern manufacturing processes? Discuss briefly.

Q.3. Describe the material removal mechanism and construction detail of electro discharge machine process with the help of a neat sketch.

Q.4. Explain the principle and constructional details of laser beam welding with neat and clean diagram.

Q.5. Enumerate the modern casting processes and also draw their sketches.

Q.6. What are the high energy rate forming methods? Write the principle and parameters of explosive forming in detail.

Q.7. Discuss Additive Manufacturing in brief with their advantages, limitations and applications.

Q.8. Write a short note on:

a) 3-D Printing

b) Selective Laser Melting and Sintering

Q.9.Explain the concept of hybrid machining and also define the role of hybrid machining in industry life.

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