



GOVERNMENT COLLEGE OF ENGINEERING, JALGAON

(An Autonomous Institute of Government of Maharashtra)

National Highway No.6, JALGAON – 425 002

Phone No.: 0257-2281522

Website : www.gcoe.ac.in

Fax No.: 0257-2281319

E-mail : princoe@rediffmail.com



Name of Examination : **Winter 2020** - (Preview)

Course Code & Course Name : **ME203U - Manufacturing Processes**

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Maximum Marks : **60**

Duration : **3 Hrs**

[Edit](#) [Print](#) [View Answer Key](#) [Close](#) **Answer Key Submission Type:** Marking scheme with model answers and solutions of numerical

Instructions:

1. All questions are compulsory.
2. Illustrate your answer with suitable figures/sketches wherever necessary.
3. Assume suitable additional data; if required.
4. Use of logarithmic table, drawing instruments and non programmable calculators is allowed.
5. Figures to the right indicate full marks.

1) Solve all three sub questions

- a) Describe, with the help of sketch, the working of a Sweep pattern stating its advantages. [4]
- b) State any four advantages of riser. [4]
- c) State any four desirable properties of cores. [4]

2) Solve any two sub questions

- a) State any four advantages, one disadvantage and applications of the permanent mould casting. [6]
- b) Explain working of a cold chamber die casting with the help of a diagram. [6]
- c) Describe the process of hydrostatic extrusion. [6]

3) Solve all three sub questions

- a) Compare gas-metal-arc welding (GMAW or MIG) with gas-tungsten - arc welding (GTAW or TIG). [4]
- b) Explain resistance spot welding with help of sketch. [4]
- c) Describe electron beam welding with diagram. [4]

4) Solve any two sub questions

- a) How lathe machine is specified? Describe reaming and knurling operations with figures performed on lathe. [6]
- b) Differentiate between up milling and down milling. [6]
- c) Describe ultrasonic welding with help of sketch. [6]

5) Solve any two sub questions

- a) Differentiate between shaping and planning. [6]
- b) Describe counter boring and countersinking operations performed on a drilling machine with the help of diagram. [6]
- c) Describe the 'Indian Standards' method of specifying a grinding wheel by taking a concrete example. [6]

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