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Question Paper Code: 53702

B.E./B.Tech. DEGREE EXAMINATION, DEC 2020

Third Semester

Mechanical Engineering

15UME302 -MANUFACTURING TECHNOLOGY-I

(Regulation 2015)

Duration: One hour

Maximum: 30 Marks

PART A - (6 x 1 = 6 Marks)

(Answer any six of the following questions)

1. Core is used to make _____. CO1- R
(a) Hollow Runners (b) Hollow casting (c) Hollow Raisers (d) Hollow pattern
2. Removal of unwanted portions from the casting is called as _____. CO1- R
(a) Washing (b) Cleaning (c) Cutting (d) Fettling
3. _____ flame has equal volumes of oxygen and acetylene supply CO2- R
(a) Equalizing (b) Normalizing (c) Neutral (d) All of the above
4. Which of the following is not a fillet weld CO2- R
(a) Corner joint (b) Butt joint (c) T- Joint (d) Lap joint
5. _____ is the best suitable forming process for making wires. CO3- R
(a) Wiring (b) Rolling (c) Extrusion (d) None of the above
6. Cold working of metal, is accomplished at _____ temperature. CO3- R
(a) Room (b) Below recrystallization
(c) Above recrystallization (d) Recrystallization
7. _____ process is suitable for making utensils and cup shaped objects CO4- R
(a) Shape Rolling (b) Deep drawing (c) Swaging (d) None of the above
8. _____ is not the type of bulk forming process. CO4- R
(a) Bending (b) Rolling (c) Forging (d) Extrusion

9. Polymer materials replaces the conventional materials due to its _____. CO5- R
(a) Light weight (b) Low cost (c) Chemical resistant (d) All of the above
10. Which process is used to manufacture plastic pipes? CO5- R
(a) Injection moulding (b) Extrusion moulding
(c) Blow moulding (d) Vacuum forming

PART – B (3 x 8= 24 Marks)

(Answer any three of the following questions)

11. Explain the shell moulding process with necessary sketches, and also explain the various process parameters in detail CO1- U (8)
12. Explain gas welding process in detail. CO2- U (8)
13. With neat sketches explain the various forging operations in detail. CO3- U (8)
14. Explain the various shearing operations in detail. CO4- U (8)
15. Explain the working principle of injection moulding process in detail. CO5- U (8)

