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Reg. No. :

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Question Paper Code: 53702

B.E./B.Tech. DEGREE EXAMINATION, NOV 2022

Third Semester

Mechanical Engineering

15UME302 -MANUFACTURING TECHNOLOGY-I

(Regulation 2015)

Duration: Three hours

Maximum: 100 Marks

Answer ALL Questions

PART A - (10 x 1 = 10 Marks)

1. The ability of the moulding sand to withstand the heat of melt without showing any sign of softening is called as CO1- R
 - (a) Strength or cohesiveness
 - (b) refractiveness
 - (c) collapsibility
 - (d) adhesiveness
2. Which of the following defects in casting can occur when there is low permeability in sand? CO1- R
 - (a) Rough surface
 - (b) Blow holes
 - (c) Hot tears
 - (d) Drop
3. Which one among the following welding process uses non consumable electrode? CO2-U
 - (a) Only A.C.
 - (b) Only D.C
 - (c) Both A.C and D.C
 - (d) None of the above
4. Heat is created by the chemical reaction in CO2- U
 - (a) Resistance welding
 - (b) Oxyacetylene welding
 - (c) Tungsten arc welding
 - (d) Thermit welding
5. The cold working of metal is accomplished at CO3- U
 - (a) Below recrystallization temperature
 - (b) Above recrystallization temperature
 - (c) Recrystallization temperature
 - (d) Any of the above

18. (a) With a neat sketch, explain about the extrusion process and its types. CO3-U (16)
- Or
- (b) (i) Distinguish between wire drawing and tube drawing with a neat sketches. CO3- U (8)
- (ii) Explain the types of rolling mills with neat sketches. CO3- U (8)
19. (a) Explain about different stretch forming operations in sheet metal work with figure. CO4- U (16)
- Or
- (b) Enumerate rubber pad forming process with suitable sketch. CO4- U (16)
20. (a) Sketch and explain the principle and working of injection moulding process and its types. CO5- U (16)
- Or
- (b) Explain about thermoforming process and its types with neat sketch CO5- U (16)

