



Regulation R18

TKR COLLEGE OF ENGINEERING AND TECHNOLOGY

(Autonomous, Accredited by NAAC with 'A' Grade)

Subject code: 2E4CA

B.Tech IV Semester Supplementary Examinations, July 2022

Manufacturing Process

(Mechanical Engineering)

Maximum Marks: 70

Date: 28.07.2022 Duration: 3 Hours

Part-A

All the following questions carry equal marks

(10x2M=20 Marks)

- 1 What is gating ratio?
- 2 Why investment casting is so named?
- 3 List principle advantage of DC arc welding over AC arc welding.
- 4 Distinguish consumable and non-consumable electrodes.
- 5 List different types rolling processes.
- 6 List various cold forming process?
- 7 Distinguish coining and embossing process.
- 8 What is the application of press forging?
- 9 List different forging hammers.
- 10 List different types of casting process.

Part-B

Answer all the questions

(10MX 5=50Marks)

- 11 Why allowances are provided on the pattern? Explain contraction, and draft allowance? [10]
OR
- 12 Compare cold chamber and Hot chamber method of Die casting. [10]
- 13 State the advantages, limitations and applications of Resistance welding process. [10]
OR
- 14 What do you know about "thermite welding"? How heat is generated in thermite welding. [10]
- 15 List different types of welding defects and explain any three of them. [10]
OR
- 16 Explain the Electron beam welding method with neat sketch. [10]
- 17 Differentiate open die forging with closed die forging? [10]
OR
- 18 Explain cold spinning process with neat sketch. [10]
- 19 Explain any two types of extrusion process with neat sketch. [10]
OR
- 20 Explain any two types of forging hammers. [10]