



R18 Regulation

Subject code: 2E4CA

TKR COLLEGE OF ENGINEERING AND TECHNOLOGY

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

B.Tech IV Semester Supplementary Examinations, September 2023

Manufacturing Process

(ME)

Maximum Marks: 70

Date: 24.09.2023 Duration: 3 hours

- Note:
1. This question paper contains two parts A and B.
 2. Part A is compulsory which carries 20 marks. Answer all questions in Part A.
 3. Part B consists of 5 Units. Answer any one full question from each unit.
 4. Each question carries 10 marks and may have a, b, c, d as sub questions.

Part-A

All the following questions carry equal marks

(10x2M=20 Marks)

- 1 List various Pattern allowances?
- 2 Why investment casting is so named?
- 3 List principal advantage of DC arc welding over AC arc welding
- 4 Distinguish consumable and non-consumable electrodes
- 5 List different types rolling processes
- 6 What are four major draw backs of hot working
- 7 What are the disadvantages of forging processes
- 8 What is the application of press forging?
- 9 Define embossing process
- 10 What is the major advantage of die casting process

Part-B

Answer All the following questions.

(5X10M=50Marks)

- 11 What are different types of gates. Explain any three of them with neat sketch. (10M)
OR
- 12 Compare cold chamber and Hot chamber method of Die casting. (10M)
- 13 Explain flame cutting process with neat sketch. (10M)
OR
- 14 Describe with the help of neat sketch explain the principle of friction welding. (10M)
- 15 With help of neat sketch explain plasma arc welding. (10M)
OR
- 16 Explain wire drawing process with neat sketch. (10M)
- 17 Differentiate open die forging with closed die forging? (10M)
OR
- 18 Explain cold spinning process with neat sketch. (10M)
- 19 Explain wire drawing process with neat sketch. (10M)
OR
- 20 Classify different forging tools and explain any two of them. (10M)

