

Workshop Concept (TCA-S102)

Semester: 2022-23 (Odd Semester)

Year: 1st Year (2K22)

Mid Semester Examination (II) (IT Branch)

Time: 1.5 h

Maximum marks: 30

All questions are compulsory

Section A

10 marks (10 questions of 1 mark each)

1. What is Blow holes ?
2. What is shrinkage cavity ?
3. What do you understand by misrun ?
4. What do you understand by pattern?
5. What is shrinkage allowance?
6. What is machining allowance?
7. What is taper allowance?
8. Why we use riser in casting process?
9. What is use of chaplet?

Section B

9 marks (3 questions of 3 marks each)

1. What are casting defects?
2. Write down principle, working, equipment and application of EDM process.
3. Brief introduction about ultrasonic machining.

Section C

12 marks (2 questions of 6 marks each,)

1. (a) Differentiate between up milling and down milling.
(b) Explain face milling, peripheral milling and counter sinking operation.
2. (a) Explain reaming , tapping, and step drilling operation.
(b) Discuss drilling operation and drill bit.