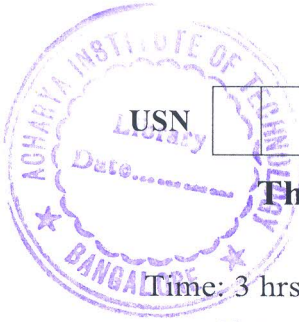


CBCS SCHEME

18AU36



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Third Semester B.E. Degree Examination, Dec.2019/Jan.2020

Manufacturing Process – I

Time: 3 hrs.

Max. Marks: 100

Note: Answer any FIVE full questions, choosing ONE full question from each module.

Module-1

- 1 a. Explain different types of patterns used in casting process. (08 Marks)
- b. Explain various pattern allowances provided in casting technology. (08 Marks)
- c. Write short note on sand binders and additives used in foundry. (04 Marks)

OR

- 2 a. Explain different types of cores used in casting process. (06 Marks)
- b. Explain different types of risers used in casting process. (06 Marks)
- c. Explain different types of casting defects. (08 Marks)

Module-2

- 3 a. Explain jolt squeeze machine used in moulding operation with neat sketch. (06 Marks)
- b. Explain sweep moulding with neat sketch. (06 Marks)
- c. Explain squeeze casting. (08 Marks)

OR

- 4 a. Explain shell moulding with neat diagrams. (10 Marks)
- b. Explain cupola furnace describing various zones informed in it. (10 Marks)

Module-3

- 5 a. Explain weld joints formed in welding operation. (06 Marks)
- b. Explain TIG welding with neat sketch. (08 Marks)
- c. Explain submerged Arc welding. (06 Marks)

OR

- 6 a. Explain Atomic Hydrogen Arc welding. (07 Marks)
- b. Explain MIG welding with neat sketch. (06 Marks)
- c. Explain flame characteristics in oxy-Acetylene gas welding. (07 Marks)

Module-4

- 7 a. Explain projection welding type of resistance welding. (07 Marks)
- b. Explain seam welding type of resistance welding. (07 Marks)
- c. Explain friction welding. (06 Marks)

OR

- 8 a. Explain explosive welding. (06 Marks)
- b. Explain Thermit welding. (07 Marks)
- c. Explain Laser welding. (07 Marks)

Module-5

- 9 a. Explain different types of Brazing. (10 Marks)
- b. Explain liquid penetrant inspection method of NDT. (10 Marks)

OR

- 10 a. Explain ultrasonic inspection of NDT. (10 Marks)
- b. Explain holographic method of inspection. (10 Marks)

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Important Note : 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.
2. Any revealing of identification, appeal to evaluator and /or equations written eg. 42+8 = 50, will be treated as malpractice.