

Question Paper

Exam Date & Time: 23-Dec-2022 (09:30 AM - 12:30 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

**INTERNATIONAL CENTRE FOR APPLIED SCIENCES
END SEMESTER THEORY EXAMINATION - DECEMBER 2022
III SEMESTER B.Sc (Applied Sciences) in Engg
MANUFACTURING PROCESS ENGG. [IME 232]**

Marks: 50

Duration: 180 mins.

Answer all the questions.

Any missing data if any, may be suitable assumed.

- 1) With a neat sketch explain the Centrifugal casting process. (5)
 - A)
 - B) List the different types Lathe Attachments used in lathe and explain any. (5)
- 2) With a neat sketch explain Radial drilling machine. (5)
 - A)
 - B) Explain the column and knee type of milling machine. (5)
- 3) List and explain Abrasive Particles used in Grinding wheel. (5)
 - A)
 - B) With a neat sketch explain the seam Welding process. (5)
- 4) Differentiate the shaper and planer machine. (5)
 - A)
 - B) With neat sketch explain the working principle of orthogonal and oblique cutting operation. (5)
- 5) Explain the bending operation in sheet metal and its advantages as well as disadvantages. (5)
 - A)
 - B) Explain the shearing process with the help of die and punch. (5)

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