

Total No. of Questions : 8]

SEAT No. :

PA-3993

[Total No. of Pages : 1

[5931]-71

S.E. (Robotics and Automation)
MANUFACTURING TECHNOLOGY
(2019 Pattern) (211502) (Semester - I)

Time : 1 Hour]

[Max. Marks : 30

Instructions to the candidates :

- 1) *Solve Q.1 or Q.2, Q.3 or Q.4, Q.5 or Q.6, Q.7 or Q.8.*
- 2) *Neat Diagram must be drawn wherever necessary.*
- 3) *Figures to the right side indicate full marks.*
- 4) *Assume Suitable data if necessary.*
- 5) *Use of Logarithmic Table, Slide rule is Electronic pocket calculator is allowed.*

Q1) What are the different types of patterns used in foundries? [8]

OR

Q2) Brief about stress concentration and explain how to release the stresses [8]

Q3) What is plastic deformation in ductile material? [7]

OR

Q4) Explain in brief sand Casting Process. [7]

Q5) What are the four major drawbacks of hot working? [8]

OR

Q6) Describe in brief: Theory of plasticity and yield criteria. [8]

Q7) What are the methods of cleaning and finishing of forging dies? Why it is important. to clean the dies? [7]

OR

Q8) Explain the concept roll flattening and roll cambering. [7]

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