

Total No. of Questions : 12]

SEAT No. :

P563

[Total No. of Pages : 2

[4457]-15

S.E. (Mech.) (Semester - I)
MANUFACTURING PROCESSES
(2008 Course)

*Time :3 Hours]**[Max. Marks :100**Instructions to the candidates :*

- 1) *Section-I: Q.1 or Q.2, Q.3 or Q.4, Q.5 or Q.6.*
- 2) *Section-II: Q.7 or Q.8, Q.9 or Q.10, Q.11 or Q.12*
- 3) *Figures to the right indicate full marks.*

SECTION - I

- Q1)** a) With a neat sketch explain permeability test. [8]
 b) Explain with a figure position of hanging and balanced core. [8]
 c) Why chaplets are used in casting? [2]

OR

- Q2)** a) Draw the fig. of Jolt moulding machine and explain it in details. [8]
 b) What is centrifuging and explain it with fig. [8]
 c) Explain the term tumbling in casting. [2]

- Q3)** a) Draw the fig of planetary rolling mill and explain it in details. [8]
 b) Explain Toggle ram drive mechanism with fig. [8]

OR

- Q4)** a) Compare Forging and casting process. [8]
 b) With a neat sketch explain Tandem rolling mill. [8]

- Q5)** a) Compare A.C and D.C Arc welding. [8]
 b) Explain Plasma Arc welding with fig. construction, principle, adv, disadv. [8]

OR

- Q6)** a) With a neat sketch explain Percussion welding construction, principle, adv, disadv. [8]
 b) Explain Thermit welding with fig, construction, principle, adv, disadv. [8]

P.T.O.

SECTION - II

- Q7)** a) Explain different parts of tailstock of the lathe with fig. [8]
 b) With fig explain lathe setting for thread cutting. [8]
 c) Give only types of chuck used in lathe. [2]

OR

- Q8)** a) What are different types of mandrels? Why are they used? [8]
 b) Write short note on capstan and turret lathe. [8]
 c) List only different types of accessories used on lathe. [2]

- Q9)** a) With fig. explain straddle and slitting milling. [8]
 b) Explain upright drilling machine with fig. [8]

OR

- Q10)** a) Draw fig. of jig boring machine and explain it in details. [8]
 b) Write a short note on Main parts of planer. [8]

- Q11)** a) Explain mounting of grinding wheels with fig. [8]
 b) Write a short note on bond and bond material used on grinding wheel. [8]

OR

- Q12)** a) Draw fig. of various grinding wheel shapes used, with its names and applications. [8]
 b) Explain planetary internal grinders with fig. [8]

