SECTION-C

Note:Long answer type questions. Attempt any three questions. 3x10=30

- Q.3 Explain the following:-
 - (a) Testing of sand.
 - (b) Salvaging of Casting.
- Q.4 What is the function of additives in moulding sands? Explain the effect of various additives used on moulding sands.
- Q.5 Explain the following:-
 - (a) Core material properties
 - (b) Physical inspection of casting
- Q.6 Explain short blasting with neat sketch. What are the advantages and disadvantages of shot blasting?
- Q.7 Define pattern. What is the common material used for pattern making?

No. of Printed Pages : 4 Roll No.

94843

4th Sem. / Found. & Forg.

Subject : Foundry Technology-I

Time: 3 Hrs. M.M.: 100

SECTION-A

Note: Very Short Answer type questions. Attempt any 15 parts. (15x2=30)

- Q.1 a) Define the term foundry.
 - b) What is mould?
 - c) List two advantages of using metal as the pattern material.
 - d) What is shrinkage allowance?
 - e) What is the function of Ram-up core?
 - f) What is loam sand?
 - g) What is the function of pin rammer and slick?
 - h) What is clay?

(60) (4) 94843

(1) 94843

- i) What is pouring basin?
- j) What is the function of parting line gates?
- k) Define shatter index?
- I) What is colour coding for pattern?
- m) What is refractoriness?
- n) Define the term "Gating System".
- o) What is gate cutter?
- p) What is fettling?
- q) What is the function of chits?
- r) What are the main core binders?

SECTION-B

Note: Short answer type questions. Attempt any ten parts 10x4=40

- Q.2 i) What are the common allowances provided on the pattern?
 - ii) Describe various pattern making tool.
 - iii) Explain cores, its essential qualities and its

(2) 94843

function.

- iv) How are the binders classified?
- v) What is the various type of mould?
- vi) Explain the following:-
 - (a) Permeability (b) Cohesiveness
- vii) Explain the various properties of sand.
- yiii) What are shell moulds?
- íx) What is bench moulding? When it is used?
- x) What is meant by green strength as applied to moulding sand?
- xi) Explain any one method of melting.
- xii) What is directional solidification?
- xiii) What do you mean by Core Knock out?
- xiv) Write short note on:-
 - (a) Venting (b) Cleaning of Casting
- xv) Explain sand reclaimation.

(3) 94843