

MODEL QUESTION

1. Answer ALL question (2x10)

- a) what do you mean by ramming.
- b) why wood is used as a pattern material.
- c) where skeleton pattern is used.
- d) Define plasticity.
- e) what is GFN.
- f) what is the application of centrifuge casting.
- g) Define continuous casting.
- h) what is Charnel's Method.
- i) what do you mean by strength test.
- j) what is Negative Allowance.

2. Answer any six. (5x6)

- a) State the function of riser with proper diagram of gating system.

b) Describe the Permeability test of the moulding sand.

c) Describe the semi centrifugal casting with advantage, disadvantage and Application.

d) Describe about Hot Chamber Die casting with figure.

e) Describe about casting Defect.

f) What are various allowance provided in pattern.

g) What remedies should be made to avoid blow holes?

3. Two casting of the same material ~~from~~ one casting is in the form of sphere & other is cube. What is the ratio of solidification time??

(10)

4. With a solidification factor of 0.97×10^6 , the solidification time for a spherical casting of $\phi 200$ mm calculate the solidification time. (10)

5. Describe the working & operation of cupola with suitable diagram. (10)

6. What are the additives to moulding sand. Describe in details. (10)

7. Describe of cold chamber die casting with details. (10)