

Reg. No. _____

Karunya University

(Karunya Institute of Technology and Sciences)

(Declared as Deemed to be University under Sec.3 of the UGC Act, 1956)

Model Question Paper

Subject Title: Foundry Technology

Time: 3 hours

Subject Code: 09ME227

Maximum Marks: 100

Answer ALL questions (10 x 1 = 10 Marks)

1. What is Pattern
2. What is core print
3. Name any two sand testing equipments
4. Name the ingredients of molding sand
5. what is shell molding
6. Name the lubricant used for coating the mold in pressure die casting
7. Name the various zones in cupalo furnace
8. What are the various defects in casting
9. What are the function of gating system
10. Name the types of risers in casting

Answer ALL questions (5 x 3 = 15 Marks)

11. Name the various types of allowances for pattern making and explain any one type of allowances
12. What is core shooters
13. Explain permanent mold process
14. What are the various types of non destructive test and explain any one type
15. Explain the function of gating system

Answer ALL questions (5 x 15 = 75 Marks)

16. Describe the various steps involved in casting process, advantages and limitation of casting process
(or)
17. Explain in details the different types of pattern with neat sketch and technique of pattern making
18. Describe the Influences of ingredients on properties on moulding sand
(or)
19. Explain the clay content test, permeability test on molding sand
20. Describe the principle of centrifugal casting with neat sketch
(or)
21. With sketch explain the principle of shell molding process
22. With neat sketch explain the various zones of cupalo furnace
(or)
23. Explain in details the various non destructive test of casting
24. Disuss in detail the design procedure of gating system
(or)
25. Explain in detail the plant layout and automation principle of a foundry shop