

- Q.25 How are castings cleaned? Explain (CO9)
 Q.26 What are the functions of a pattern (CO6)
 Q.27 Explain electric furnace with neat sketch (CO11)
 Q.28 Write the advantages of forging (CO14)
 Q.29 Explain rolling defects (CO15)
 Q.30 Classify the extrusion processes (CO16)
 Q.31 Write the general properties of plastics (CO17)
 Q.32 Write the difference between TIG and MIG welding (CO5)
 Q.33 What are the safety precautions used in welding (CO1)
 Q.34 Explain open die forging (CO14)
 Q.35 Explain elements of a gating system (CO10)

SECTION-D

- Note:** Long answer type questions. Attempt any two questions out of three questions. (2x10=20)
 Q.36 Explain the principle, working, advantages, disadvantages and application of TIG welding(CO5)
 Q.37 Explain different types of moulding sands in detail (CO7)
 Q.38 Explain any ten welding defects (CO3)

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3rd Sem / Mech. Engg. (MSIL)
Subject:- Workshop Technology-1

Time : 3Hrs. M.M. : 100

SECTION-A

Note: Multiple choice questions. All questions are compulsory (10x1=10)

- Q.1 Acetylene gas is stored in cylinders in (CO2)
 a) Gaseous form c) liquid form
 b) Solid form d) All of the above
 Q.2 Electrodes are (CO3)
 a) Non-metal rods
 b) Flux coated metal rods
 c) nickel plated rods
 d) All of the above
 Q.3 Allowances that can be ignored in small casting is (CO6)
 a) rapping c) machining
 b) draft d) shrinkage
 Q.4 Which of the following is not a casting process (CO9)
 a) shell casting
 b) die casting
 c) Carbon dioxide mould casting
 d) floor moulding

- Q.5 The design of riser is based upon (CO10)
 a) continuity equation c) Gibb's rule
 b) Bernaulli's equation d) chvorinov's rule
- Q.6 Cast iron is manufactured in (CO11)
 a) Blast furnace c) Open hearth furnace
 b) Pit furnace d) cupola furnace
- Q.7 Which of the following is not a casting defect(CO12)
 a) Hot tears c) Scale
 b) Blow holes d) Porosity
- Q.8 Which of the following is a forming operation (CO13)
 a) Bending c) Squeezing
 b) Drawing d) All of the above
- Q.9 Smith forging is also known as (CO14)
 a) Open die forging
 b) Closed die forging
 c) impression die forging
 d) None of the above
- Q.10 Which plastic is used in adhesive applications (CO17)
 a) P.V.C c) Phenol formaldehyde
 b) Epoxy d) None of the above

SECTION-B

- Note:** Objective type questions. All questions are compulsory. (10x1=10)
- Q.11 What is oxidizing flame (CO2)
 Q.12 Define electrode (CO3)
 Q.13 _____ is used to make a cavity in the mould (CO6)
 Q.14 Define gate (CO10)
 Q.15 Define welding (CO1)
 Q.16 Write the full form of MIG (CO5)
 Q.17 Polyvinylchloride (P.V.C) is a _____ Material (CO17)
 Q.18 Define rolling (CO15)
 Q.19 Name the two metals which are used for making patterns (CO6)
 Q.20 Define moulding (CO8)

SECTION-C

- Note:** Short answer type questions. Attempt any twelve questions out of fifteen questions. (12x5=60)
- Q.21 Name different gas welding equipments (CO2)
 Q.22 What are the effect of polarity in welding (CO3)
 Q.23 Explain the principle of operation of seam welding (CO4)
 Q.24 Define mould? Name different types of moulds (CO8)