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Roll No.

180333/171733/121733
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**3rd Sem / Mechanical Engineering
Subject:- Workshop Technology - I**

Time : 3Hrs.

M.M. : 100

SECTION-A

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

Q.1 Acetylene is stored in the cylinders in. (CO1)

- a) Pure form
- b) Dissolving in acetone
- c) Vapor form
- d) None of the above

Q.2 The standard colour of hoses for oxygen gas in oxy-acetylene gas welding is. (CO1)

- a) Red
- b) Black
- c) Brown
- d) None of the above

Q.3 The flame at the tip of oxy-acetylene torch is ignited by. (CO2)

- a) Candle
- b) Match stick
- c) Spark lighter
- d) All of the above

Q.4 Electrodes are (CO2)

- a) Non-metal rods
- b) Nickel plated rods
- c) Flux coated metal rods
- d) All of the above

Q.5 In automobile industries, welding generally used in (CO3)

- a) Gas welding
- b) MIG welding
- c) Spot welding
- d) All of the above

Q.6 Resistance welding is a (CO4)

- a) Pressure welding
- b) Forge welding
- c) Fusion welding
- d) None of the above

Q.7 Chaplets are made by (CO5)

- a) Metals
- b) Wood
- c) core sand
- d) Silica

Q.8 Loose piece pattern are held with (CO6)

- a) Dowels
- b) Cores
- c) Binders
- d) Nails

Q.9 The sand used for making cores is (CO7)

- a) Green sand
- b) Dry sand
- c) Loam sand
- d) Oil sand

Q.10 Which of the following is a cutting operation ?(CO9)

- a) Lancing
- b) Splitting
- c) Punching
- d) All of the above

SECTION-B

Note: Objective type questions. All questions are compulsory. (10x1=10)

Q.11 Write the other name of pressure welding. (CO1)

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- Q.12 Acetylene gas is stored in cylinder in _____ form. (CO1)
- Q.13 Tensile test is performed on _____ machine. (CO2)
- Q.14 Resistance welding is a _____ (CO2)
- Q.15 Full form of T.I.G. (CO3)
- Q.16 Cope and drag pattern is a form of _____ (CO3)
- Q.17 The mould material in plaster mould is _____ (CO4)
- Q.18 Hot chamber is a type _____ casting. (CO5)
- Q.19 Open die forging is also known as _____. (CO8)
- Q.20 Name two types rolling. (CO7)

SECTION-C

- Note:** Short answer type questions. Attempt any twelve questions out of fifteen questions. (12x5=60)
- Q.21 What is the function of coating on electrodes?(CO1)
- Q.22 Write the advantages of arc welding. (CO1)
- Q.23 Write the advantages MIG welding (any four).(CO2)
- Q.24 Write the function of pattern (any five). (CO3)
- Q.25 Explain any four properties of moulding sand. (CO3)
- Q.26 Explain, in brief centrifugal casting and its types. (CO4)
- Q.27 Write the requirements of a riser. (CO5)

- Q.28 Write the causes and remedies of porosity in casting. (CO6)
- Q.29 Write the advantages of forging. (CO7)
- Q.30 Write the general properties of plastics. (CO8)
- Q.31 Name two types of arc welding machines. (CO2)
- Q.32 Write any four rolling defects. (CO8)
- Q.33 Write the advantages of forging. (CO7)
- Q.34 Define Plastics. Explain different types of plastics (CO12)
- Q.35 Write the general properties of plastics. (CO12)

SECTION-D

Note: Long answer type questions. Attempt any two questions out of three questions. (2x10=20)

- Q.36 Write a short note on (CO2)
- Robotic welding
 - Seam welding .
- Q.37 Explain with a neat sketch, construction and working of cupola furnace. (CO6)
- Q.38 Explain hot and cold rolling with neat sketch. (CO12)

(**Note:** Course outcome/CO is for office use only)