

- Q.27 Explain the various pattern allowances.
- Q.28 Name the various pattern making tools.
- Q.29 Explain the commonly used materials in moulding sand.
- Q.30 Write a short note on extrusion.
- Q.31 Explain cold chamber die-casting machine with the help of neat sketch.
- Q.32 Explain seamless tube manufacturing process.
- Q.33 Explain working Pit furnace with the help of neat sketch.
- Q.34 Explain ultrasonic testing of casting.
- Q.35 Explain progressive die.

#### SECTION-D

- Note:** Long answer type questions. Attempt any two questions out of three questions. (2x10=20)
- Q.36 Explain laser beam welding. Write its advantages, disadvantages and applications.
- Q.37 Define mould and explain various types of moulds.
- Q.38 Explain centrifugal casting with the help of neat sketch.

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

Time : 3Hrs.

M.M. : 100

#### SECTION-A

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

- Q.1 Filler metal is used in
- Gas welding
  - Electric resistance welding
  - Seam welding
  - Spot welding
- Q.2 Electrodes are
- None-metal rods
  - Nickel plated rods
  - Flux coated metal rods
  - All of the above
- Q.3 In automobile industries, welding generally used is
- Gas welding
  - MIG welding
  - Spot welding
  - None of the above
- Q.4 Which of the following gases is used in MIG?
- Argon
  - Hydrogen
  - Nitrogen
  - Carbon dioxide

- Q.5 Green colour on patterns is used for
- Pattern joint
  - Stop offs
  - Seat for loose piece/core prints
  - None of the above
- Q.6 Loam sand is a mixture of
- 30% sand and 70% clay
  - 50% sand and 50-% clay
  - 70% sand and 30% clay
  - 90% sand and 10 % clay
- Q.7 Sand blasting is used for
- Cleaning the castings
  - Finishing the castings
  - Core making
  - Mixing sand and additives
- Q.8 Two or more cutting operation are done simultaneously on
- Compound die
  - Progressive die
  - Simple die
  - None of the above
- Q.9 In four high rolling mill, smaller rolls are called
- Working rolls
  - Back up rolls
  - Main rolls
  - Guide rolls
- Q.10 Melamine is obtained from
- Manganese dioxide
  - Magnesium sulphate
  - Calcium carbide
  - Calcium sulphate

## SECTION-B

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

- Q.11 Forge welding is a type of \_\_\_\_\_ welding.
- Q.12 Define weld bead.
- Q.13 What is oxidizing flame?
- Q.14 Define arc crater.
- Q.15 In resistance welding \_\_\_\_\_ filler metal is used.
- Q.16 Name some special sand.
- Q.17 Centrifugal casting is type of \_\_\_\_\_ mould casting.
- Q.18 Progressive die is also known as \_\_\_\_\_.
- Q.19 Define hot extrusion.
- Q.20 Melamine is obtained from \_\_\_\_\_.

## SECTION-C

**Note:** Short answer type questions. Attempt any twelve questions out of fifteen questions. (12x5=60)

- Q.21 Name the various equipment and accessories used in arc welding.
- Q.22 Enlist the application of gas welding.
- Q.23 Explain injection moulding.
- Q.24 Enlist the various properties of flux added to the weld.
- Q.25 Write the advantages and applications of resistance welding?
- Q.26 Differentiate between TIG & MIG welding.