

SECTION-C

Note: Short answer type Questions. Attempt any eight questions out of ten Questions. (8x5=40)

- Q.23 List out various hot working process and explain any two process.
- Q.24 List out various hazards in forging operation.
- Q.25 Explain various types of forging operations.
- Q.26 Explain types of power press based on source of power.
- Q.27 Name the different types of Rolling mill operation and explain any one mill.
- Q.28 Explain Safety in cold and hot rolling.
- Q.29 Explain different operations using Lathe Machine.
- Q.30 Explain Arc welding and MIG welding.
- Q.31 What are the Hazards and control measures in shot blasting operation?
- Q.32 Explain safety and Health hazards during heating and quenching operations.

SECTION-D

Note: Long answer questions. Attempt any three questions out of four Questions. (3x10=30)

- Q.33 Explain various health hazards associated in foundry operations and preventive measures.
- Q.34 What are the various hazards in forging operation and preventive measures?
- Q.35 Explain various Hazards in Steel Rolling Operation and Safety measures.
- Q.36 Explain various hazards and safety measures on shearing operation.

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SECTION-A

Note: Multiple type Questions. All Questions are compulsory. (10x1=10)

- Q.1 Stainless steel is having _____ resistance to corrosion.
- a) Less
 - b) More
 - c) 50%
 - d) No resistance
- Q.2 The most common metals used in foundry operations are _____ and _____.
- a) Aluminium and Cast Iron
 - b) Bronze and Brass
 - c) Brass and Magnesium
 - d) Brass and Zinc
- Q.3 An Electric Arc Furnace has _____ numbers vertical electrodes that conduct an alternating current.
- a) One
 - b) Three
 - c) Four
 - d) Two

Q.4 Cold forging is carried out at a temperature _____ the recrystallization temperature of the metal.

- a) Below
- b) Minimum
- c) Average of
- d) Above

Q.5 Heading operation is carried on _____ forging.

- a) Drop
- b) Press
- c) Upset
- d) Roll

Q.6 Cluster mill is used for _____ rolling process.

- a) Hot
- b) Two high
- c) Cold
- d) Four high

Q.7 Milling cutter will be fitted on

- a) Spindle
- b) Arbor
- c) Over Arm
- d) Machine vice

Q.8 Grinding wheel consists of hard _____ grains called grits.

- a) Stand grains
- b) Abrasive
- c) Fine shot grains
- d) Hard metal powder

Q.9 In MIG Welding _____ electrodes are used

- a) Consumable
- b) Non consumable
- c) Lanthanated
- d) Thoriated

Q.10 Protection of tool and die of power press stated in which Rule / Schedule of Factory Rules, 1952.

- a) Rule 55 Schedule-IV (4)
- b) Rule 55 Schedule IV (3)
- c) Rule 55 Schedule IV (5)
- d) Rule 55 Schedule IV (2)

SECTION-B

Note: Very Short answer type questions. Attempt any ten questions out of twelve questions. (10x2=20)

Q.11 Explain Sand Casting.

Q.12 Explain Mould.

Q.13 Explain Hot forging.

Q.14 Explain Power Press.

Q.15 Explain Point of operation.

Q.16 Explain shearing machine.

Q.17 Name the different types of planer machine.

Q.18 Name the guards used in bench grinder.

Q.19 Name the different types of cleaning operations.

Q.20 Explain Annealing.

Q.21 What do you mean by Occupational diseases.

Q.22 What are the PPE's used in welding operation.