

## 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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**Sub.: Safety in Engineering Industries**

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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

(1) RLI-095408A

- 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.