

SECTION-C

Note: Short answer type questions. Attempt any twelve questions out of fifteen questions. $(12 \times 5 = 60)$

- Q.21 Gas Shielded Arc Welding.
Q.22 Gas poisoning in heat treatment.
Q.23 Safety in Polishing & Buffing.
Q.24 Safety in Metal Shears.
Q.25 Safety in the use of Turning Machines.
Q.26 Hazards and safety measures in high speed steel salt bath.
Q.27 Safety measures in Soldering operation.
Q.28 Safety In ladle handling.
Q.29 Hazards associated with Cupola Furnace.
Q.30 Safety Precautions in Resistance Welding.
Q.31 Hazards & Safety measure Forging operation.
Q.32 Safety measures in Soldering operation.
Q.33 Describe in brief various hazards and safe guards during use of Grinding Wheel.
Q.34 Explosion proof fittings.
Q.35 Describe types of steel.

SECTION-D

Note: Long answer type questions. Attempt any two questions out of three questions. $(2 \times 10 = 20)$

- Q.36 Explain briefly the safety measures to be followed in electroplating operations.
Q.37 Discuss the Hazards and safety measures in Gas Welding and Cutting.
Q.38 Discuss the hazards and safety measures of lathe machine.

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Roll No.

1st Years/Post Diploma in Industrial Safety

Subject:- Safety in Engineer industries

Time : 3Hrs.

M.M. : 100

SECTION-A

Note: Multiple choice questions. All questions are compulsory $(10 \times 1 = 10)$

- Q.1 Types of feed used in power presses is/are.
a) Gravity feed b) push feed
c) Dial feed d) All the above
- Q.2 under selection 2 (cb) of the factories act,1948 the following is defined.
a) Hazardous substance
b) Hazardous industry
c) Hazardous Zone
d) Hazardous Process
- Q.3 The Chapter IV of the Factories Act, 1948 deals on the following.
a) Safety
b) Provisions relating to hazardous processes
c) Welfare
d) None of the above
- Q.4 Chip breaker tools are used for.
a) Joining of metal chips
b) Braking down scrap materials
c) Breaking long chips given out during material removal operation
d) None of the above

- Q.5 Drawing operation is defined as.
- Operation of forming sheet metal
 - Operation of material removal
 - Operation of pre-heating material
 - Operation of forming wires
- Q.6 Ladles are used to _____ during casting operation.
- Heat molten metal
 - Pre heat metal
 - Pour molten metal
 - Remove slag
- Q.7 Most accidents in grinding operations occur due to _____.
- Improper grinding wheels
 - Poor maintenance of grinding machines
 - Improper storage of grinding wheels
 - All of the above
- Q.8 In gas welding _____ is used along with a fuel gas.
- Argon
 - Nitrogen
 - Both (a) and (b)
 - Oxygen or air
- Q.9 Safety precaution(s) while using torches is/are.
- Set the regulator to the recommended pressure
 - Keep the blow pipe nozzle near to source of ignition
 - Both a) and b)
 - none of these
- Q.10 "Which of the following forms permanent joints:
- Bolts
 - screws
 - rivets
 - adhesive bonding
 - welding
- (i) and (ii)
 - (i), (ii) and (iii)
 - (iii) and (v)
 - (iv) and (v)

SECTION-B

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

- Q.11 _____ is a heat treatment process that changes the physical and sometimes also the chemical properties of a material to increase ductility and reduce the hardness to make it more workable.
- Q.12 _____ is defined as the maximum concentration of a chemical allowable for repeated exposure without producing adverse health effects.
- Q.13 _____ is the test used to check whether the wheel is cracked or damaged.
- Q.14 Write full form of 5S.
- Q.15 _____ is the means by which a crude casting is turned into a cost effective quality component that meets all the standards required by the customer.
- Q.16 Radiant heat is transmitted through _____ waves.
- Q.17 Name the BIS standard code for Safety Audit.
- Q.18 Temperature at which deformed grains are replaced by a new set of non-deformed grains that nucleate and grow until the original grains have been entirely consumed is called _____.
- Q.19 Quenching is a cooling process in which either furnace cooling or ambient air cooling is done. (True or False)
- Q.20 MIG welding uses a non-consumable tungsten electrode with a shielding gas fed through a supply line and a separate, hand held filler rod that is manually fed into the weld pool. (True or False)