

GUJARAT UNIVERSITY
B.E. SEM VIII (MECHANICAL)
M-805/5 (ELECTIVE PAPER-II) INDUSTRIAL SAFETY

1	List down the functions of boilers Also classify the different types of boilers.
2	Explain in detail about Indian Boilers Regulation (IBR)
3	Explain in detail about Safety systems in boilers and accessories.
4	Short note on electro static precipitator (ESP)
5	Short note on Heat exchangers
6	Explain in detail about furnace safe guard supervisory system (FSSS)
7	Short note on air pre heaters
8	Explain in detail about fly ash disposal techniques
9	Define refrigerant. Classify the refrigerants in detail
10	Discuss in detail about HP- LP cutouts and thermostats
11	Define welding. Classify the different types of welding techniques.
12	Explain in detail about resistances welding
13	Discuss in detail about safety in generation, distribution and handling of industrial gases
14	Short note on Cold working also Classify the various types of cold working methods
15	Short note on Hot working also Classify the various types of hot working methods
16	Discuss in detail about Cupola furnace
17	Discuss in detail about material handling in foundries
18	Define heat treatment of metals. Classify the different types of heat treatment processes.
19	Short note on electro plating
20	Short note on hydro testing
21	Discuss in detail about Health and welfare measures in engineering industry
22	Discuss in detail about pollution control in engineering industry
23	Discuss in detail about industrial waste disposal techniques.
24	Discuss in detail about principles of fire extinguishing
25	Explain in detail about Sources of ignition
26	Explain in detail about active and passive fire protection systems
27	Discuss in detail about various classes of fires
28	Explain in detail about major functions of fire station
29	Discuss in detail about maintenance of fire trucks
30	Discuss in detail about first aid techniques for burns
31	Explain in detail about shut down and firing procedures for boilers
32	Short note on safety valves
33	Explain in detail about maintenance and testing of thermal equipments
34	Explain in detail about General safety rules to be consider during working on turning machines, boring machines and milling machines
35	Explain in detail about General safety rules to be consider during working on planning and grinding machines
36	Explain in detail about General safety principles for CNC machines
37	Explain in detail about need for selection and care of cutting tools
38	Explain in detail about preventive maintenance required in metal working machinery
39	Explain in detail about inspection and maintenance required for Cold working processes
40	Explain in detail about cleaning and finishing foundry processes