

**DSFST31**

**ASSIGNMENT-1**  
**UNDER GRADUATE DEGREE EXAMINATION, DEC-2017**  
**B.Sc. (FIRE AND SAFETY)**  
**FINAL YEAR**  
**PAPER – 2 :: SAFETY MANAGEMENT**  
**MAXIMUM MARKS: 30**  
**Answer ALL Questions**

1. Write about Safety Training?
2. What is Safety Publicity?
3. When National Safety day is celebrated. How do you conduct the event of Safety Day Celebration if you are a Safety Officer.
4. As Persecution 2(L) define a worker as per factory Act
5. Write about methods of motivation
6. List out Important Safety committees
7. Why safety Audit is needed?
8. Write the Elements of Managerial Functions.

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**PAPER – 2 :: SAFETY MANAGEMENT**  
**MAXIMUM MARKS: 30**  
**Answer ALL Questions**

1. A Safety committee is most useful mechanisms in accident prevention organize important Safety committees with proper justification
2. Role of Management in Industrials Safety?
3. To enforce certain Laws, Central Government enforced contains Laws. Write details of Enforcing Machinery
4. Methods of Motivation?
5. What is Safety Audit & Types of Safety Audit?
6. List out Important Leadership Qualities?
7. Write about Safety Publicity and Safety Library.
8. List out sections prescribed for Safety Training in Factories Act 1948.

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**PAPER – 3 :: SAFETY IN CHEMICAL & ELECTRICAL INDUSTRY**

**MAXIMUM MARKS: 30**

**Answer ALL Questions**

1. What is the objective of occupational Health and Safety?
2. What is the difference between Hazard and Risk?
3. What are the Hazards associated with pressure vessels?
4. What precautions should be taken while handling “Explosives”?
5. Define Current, Voltage & Resistance.
6. Explain how is voltage measured?
7. State first- aid measures against burns caused by Electricity.
8. Draw the sketch of a fire extinguisher suitable to fight electrical fires. Name its parts.

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**PAPER – 3 :: SAFETY IN CHEMICAL & ELECTRICAL INDUSTRY**

**MAXIMUM MARKS: 30**

**Answer ALL Questions**

1. State precautions required in the selection & use in different locations of
  - a. Portable Electrical Apparatus
  - b. Flame proof electrical equipments.
2. Explain various instruments & tools used in carrying on electrical repair jobs
3. Discuss safety measures in Boiler & Turbine operations
4. Define ground fault. What are the factors contributing to ground fault? Describe earth fault protection system.
5. Describe hazards & their control measures in a Fertilizer Industry.
6. State precautions to be taken in storage of Flammable liquids.
7. Describe role of instrumentation in safe operation of chemical plants.
8. How will you ensure fitness of a pressure vessel (or) storage tank?

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**PAPER – 4 :: FUNDAMNTALS OF DISASTER MANAGEMENT**  
**MAXIMUM MARKS: 30**  
**Answer ALL Questions**

1. Differentiate between hazard & disaster.
2. What are Ergonomic hazards illustrate with examples?
3. What are the direct effects of disaster?
4. How is disaster administrated at state level?
5. What are the sources of finance for Relief Expenditure?
6. Explain disaster risk in India.
7. Explain duties of N D M A
8. State general response procedure against hazardous substance.

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**PAPER – 4 :: FUNDAMNTALS OF DISASTER MANAGEMENT**  
**MAXIMUM MARKS: 30**  
**Answer ALL Questions**

1. Discuss long term remedies against disaster.
2. Describe silent features of disaster preparedness plan.
3. Describe the role of training & education in the prevention & mitigation of disaster.
4. Describe the strategic disaster planning process.
5. Describe role of various public departments during disaster.
6. Describe risk assessment procedure for Major Accident Hazard industries
7. Describe human health impacts of disasters.
8. Write short notes on
  - a. Climate change
  - b. Early Warning system

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**PAPER – 1 :: SAFETY & THE LAW**  
**MAXIMUM MARKS: 30**  
**Answer ALL Questions**

1. Environment means
2. Calendar year means
3. Factory means
4. Power means
5. Machinery means
6. Safety Officer is appointed as per Section of the Factory Act.
7. As per Factory Act 1948, give details of excessive wages to be carried by Adult male and Adult female, adolescent male and adolescent female.
8. Full form of NSC, ILO and CPCB.

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**PAPER – 1 :: SAFETY & THE LAW**  
**MAXIMUM MARKS: 30**  
**Answer ALL Questions**

1. Give details of the amended Factory's Act 1987 on these points
  - a. Basic approach
  - b. Health protection
2. List out various disasters taken place in India.
3. Give details of pollution control Act (Air).
4. List out Chapter V of Factories Act 1948
5. Discuss on Sec 21, Sec 22, Sec 26 of Factory Act 1948.
6. Define Pollution and write about the Water (prevention and control of pollution) Act 1974. Objectives.
7. Give details of Section 28 hoist & lifts as per Factory Act.
8. Write on emergency preparedness, planning and response at any chemical accident.