

CON 1415

(ENGLISH)

[TIME ALLOWED—3 HOURS]

(MARKS—100)

SAFETY, HEALTH AND ENVIRONMENTAL LEGISLATION (THEORY-V)*Instructions:—*(1) All questions are *compulsory*.

(2) Illustrate your answers with neat sketches wherever necessary.

(3) Figures to the right indicate *full* marks.(4) Assume suitable data if *necessary*.**Marks**

1. Select correct alternatives :—

20

(i) Precaution in case of fire is given in

(a) Section 34

(b) Section 35

(c) Section 36

(d) Section 38.

(ii) Find out incorrect safety fitting in a boiler

(a) Safety valve

(b) Water-level gauge

(c) Fusible plug

(d) Steam pressure gauge.

(iii) A petroleum having flash point below 23 °C is classified as

(a) Class A

(b) Class B

(c) Class C

(d) Class D.

(iv) The authority which is responsible for implementation of Factory Act, 1948 is

(a) Secretary, Labour

(b) Secretary, Industry and Labour

(c) Labour Institute

(d) Director, Health and Safety.

(v) Person violating silence zone, as per provision of act and rule is liable for severe punishment like fine and imprisonment upto.....

(a) 1 lakh

(b) Imprisonment upto 5 years

(c) Either of above

(d) Spared from punishment.

(vi) The Factory Act, 1948, chapter 6 mention the provision for.....

(a) Leave with wages

(b) Working hours

(c) Women welfare

(d) Penalties and procedures.

(vii) The first schedule of Factory Act, 1948, mentioned the list of

(a) Hazardous process industries

(b) Hazardous diseases

(c) Power of inspector

(d) None of above.

(viii) Ambient air quality standards in industrial area during day time specified as

(a) 45 DB (A)

(b) 55 DB (A)

(c) 65 DB (A)

(d) 75 DB (A).

[Turn over

- (ix) All expertise related to OSH, given to all Government, Industries, Institutes, Labour Organization by
- Labour Ministry, GOI
 - Industry Ministry, GOI
 - Directory, Health and Safety
 - International Labour or Organization.
- (x) Every district shall be an inspector for his district.
- Magistrate
 - Person
 - Worker
 - None of these.
2. Write short notes on (any *two*) :— 16
- Strength of DA cylinders
 - TERM card
 - MSDS
 - Storage of hydrogen cylinder
 - Role of ILO in the field of safety.
3. Write in detail (any *two*) :— 16
- Define hazardous process under the Factories Act, 1987.
 - Write in detail the statutory provisions regarding safe transportation of dangerous goods by road.
 - Write about the responsibility of the occupier under the Manufacturing Storage and Import of Hazardous Chemical Rules, 1989.
4. Answer the following (any *two*) :— 16
- Define boiler. What are the safety mounting on boiler ?
 - Explain " Safety Tag " system with examples The Central Motor Vehicles Rules, 1989.
 - What are the provisions in Factory Act, 1948 pertaining to lifting machine, chain, ropes and lifting tackles.
5. Answer the following questions (any *two*) :— 16
- Define permit to work system.
 - Define dangerous operations under the Factory Act, 1948.
 - Write about the role of ILO in the field of safety.
6. Attempt any *two* of the following :— 16
- What are the type of accident investigation with essential element ? Who should carry out the investigation ? Why ?
 - Define hazardous process under the Factory Act, 1948.
 - What are the qualifications and disqualification prescribed under the Factory Act, 1948 and rules for a safety officer.