



UNIVERSITY OF PETROLEUM AND ENERGY STUDIES
End Semester Examination, July 2020

Course: Legal Aspects of Safety Health & Env

Programme: B Tech FSE

Course Code : HSFS 3007

Semester: VI

Time: 3 Hours

Max. Marks: 100

Instructions: The test contains multiple choice (MC), Multiple answers (MA), True /False (TF) and fill in the blanks (FIB) questions

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| 1 | MC | In which year did factories act come into force? | 23rd September, 1948 | Incorrect | 1st April, 1949 | Correct | 4th April, 1949 | Incorrect | 12th September, 1948 | Incorrect |
| 2 | MC | Whenever a new manager is appointed, within how many days the occupier has to communicate this to the inspector of factories | 15 days | Incorrect | 20 days | Incorrect | 10 days | Incorrect | 7 days | Correct |
| 3 | MC | Third schedule of factories act deals with | List of occupational diseases | Correct | Permissible limits of exposure | Incorrect | List of industries involving hazardous process | Incorrect | Duties of safety officer | Incorrect |
| 4 | MC | The person who has ultimate control over the affairs of the factory is called | CEO | Incorrect | Occupier | Correct | Managing Director | Incorrect | Manager | Incorrect |
| 5 | MC | Maximum permissible weight that an adult male can carry without any aid is | 40 kg | Incorrect | 50 kg | Incorrect | 55 kg | Correct | 35 kg | Incorrect |
| 6 | TF | As per Factories Act, "hazardous process" means any process or activity in relation to an industry specified in the second schedule where, unless special care is taken, raw materials used therein or the intermediate or finished products, by-products, wastes or effluents thereof would- (a) Cause material impairment to the health of the persons | True | Incorrect | False | Correct | | | | |

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| | | engaged in or connected therewith (b) Result in the pollution of the general environment | | | | | | | | |
| 7 | FI B | If there are ____ numbers of employees, then the employer has to provide a canteen. | 250 | Correct | Two Hundred Fifty | Correct | | | | |
| 8 | FI B | "Factory" means any premises including the precincts whereon ----- or more workers are working, or were working on any day of the preceding twelve months, and in any part of which a manufacturing process is being carried on with the aid of power. | 10 | Correct | Ten | Correct | | | | |
| 9 | FI B | As per Factories Act, "child" means a person who has not completed his ----- year of age | 15 | Correct | Fifteen | Correct | Fifteenth | Correct | | |
| 10 | M C | What are the general duties of an Occupier? A. Maintenance of a plant and system of work in factory are safe, without risks to health. B. Ensure safety and absence of risks to health in, use, handling, storage and transport of articles and substances. C. Specifying the area D. Defining the local mean time ordinarily deserved therein. | A | Incorrect | B | Incorrect | A & B | Correct | All of the above | Incorrect |
| 11 | FI B | Who grants certificate of fitness to young persons employed in factories | Certifying Surgeon | | | | | | | |
| 12 | FI B | Minimum space (in cubic meters) required per person in factory is | 14.2 | Correct | | | | | | |
| 13 | TF | All adolescent workers are young persons | True | Correct | False | Incorrect | | | | |

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| 14 | TF | As per factories act competent person is any one who possess knowledge and experience in his domain | True | Incorrect | False | Correct | | | | |
| 15 | TF | In an organization 800 people are working on an average, It have 521 male workers and rest are female workers. It have 11 urinals, 10 latrines each for male and females, 1. With respect to urinals; the company is complying the factories act requirements | True | Incorrect | False | Correct | | | | |
| 16 | TF | In an organization 800 people are working on an average, It have 521 male workers and rest are female workers. It have 11 urinals, 10 latrines each for male and females, 1. With respect to latrines; the company is complying the factories act requirements | True | Correct | False | Incorrect | | | | |
| 17 | MC | How many sections are there in Factories Act 1948 | 120 | Correct | 3 | Incorrect | 5 | Incorrect | 21 | Incorrect |
| 18 | MC | While working at the construction of a multistoried building of a company, a worker employed by a 'contractor', supplied by a 'Sirdar', faced an accident and became temporarily disabled. For paying compensation to the worker, who shall be held responsible as per law? | The Sirdar who supplied the worker | Incorrect | The contractor who employed the worker | Correct | Both (A) and (B) | Incorrect | None of the above | Incorrect |
| 19 | MC | Under the Child Labor (Prohibition and Regulation) Act, 1986, a child is one who has not completed his | 18 years | Incorrect | 16 years' | Incorrect | 15 years | Incorrect | 14 years' | Correct |

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| 20 | MC | The Child Labor (Prohibition and Regulation) Act, is an example of | Regulative Labor Legislation | Incorrect | Deprived and Disadvantaged Sections of the Society | Correct | Social Security Legislation | Incorrect | Welfare Legislation | Incorrect |
| 21 | MC | If the employee is terminated or removed for the employment by the employer, the wage of that employee should be paid within ----- days from the day on which he was removed or terminated. | 1 | Incorrect | 2 | Correct | 15 | Incorrect | 13 | Incorrect |
| 22 | MC | Which one of the following is not a machinery for settlement of Industrial Disputes under the Industrial Disputes Act, 1947? | Conciliation Officer | Incorrect | Board of Conciliation | Incorrect | Collective Bargaining | Correct | Labor Court | Incorrect |
| 23 | MC | If a company employee 899 workers the payment of wages shall be made before of next month. | 5-th day | Incorrect | 7 th day | Correct | 10 th day | Incorrect | 15 th day | Incorrect |
| 24 | MC | Inter-state migrant workers act applies to A. To every establishment in which five or more inter-State migrant workmen are employed B. To every contractor who employs or who employ five or more inter-State migrant workmen in the preceding one year. | Only A is correct | Incorrect | Only B is correct | Incorrect | Both A & B are correct | Correct | Both are incorrect | Incorrect |
| 25 | MC | No license is required when liquefied petroleum gas when the total quantity of gas does not exceed kg at a time | 100 | Correct | 50 | Incorrect | 25 | Incorrect | 10 | Incorrect |
| 26 | MC | maximum quantity of explosives permitted by the licensing authority to be stored or processed in a particular premises is called | Magazine | Incorrect | Explosive Limit | Correct | Man Limit | Incorrect | Threshold Limit | Incorrect |

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| 27 | MC | Pressure vessels containing corrosive or toxic gases, the periodic test shall be done at an interval of | 2 year | Correct | 5 years | Incorrect | 10 years | Incorrect | Every year | Incorrect |
| 28 | TF | Petroleum Class C means petroleum having a flash-point of 65 degrees Centigrade and above but below 95 degrees Centigrade | True | Incorrect | False | Correct | | | | |
| 29 | TF | In Zone 0 Area all electric apparatus installed or used shall be either a flame proof or intrinsically safe apparatus of a type or types approved in writing by the Chief Controller. | True | Incorrect | False | Correct | | | | |
| 30 | MC | The maximum permissible level of ambient noise level as during day time is in dB is | 75 | Correct | 90 | Incorrect | 65 | Incorrect | 100 | Incorrect |
| 31 | MC | The Environment (Protection) Act was enacted in the year | 1986 | Correct | 1976 | Incorrect | 1980 | Incorrect | 1984 | Incorrect |
| 32 | MC | The hazardous and other wastes generated in the establishment of an occupier shall be handed over to A. An authorized actual use or B Shall be disposed of in and authorized disposal facility | Both are true | Correct | Both are incorrect | Incorrect | Only A is true | Incorrect | Only B is true | Incorrect |
| 33 | MC | The EPA consists of | 8 chapters | Incorrect | 6 chapters | Incorrect | 5 chapters | Incorrect | 4 chapters | Correct |
| 34 | MC | As per explosive act, explosives are classified in to how may categories | 5 | Incorrect | 4 | Incorrect | 6 | Incorrect | 8 | Correct |
| 35 | TF | As per Petroleum rules license for storage of class c petroleum products is required when the quantity in possession exceeds 45000 L | True | Correct | False | Incorrect | | | | |
| 36 | TF | Petroleum shall not be loaded/ unloaded after unset | True | Incorrect | False | Correct | | | | |

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| 37 | M C | An authorization in Form 2 under Hazardous other wastes rules shall be valid for how many years | 1 year | Incorrect | 2 years | Incorrect | 3 years | Incorrect | 5 years | Correct |
| 38 | M C | No license is required when liquefied petroleum gas when the total quantity of gas does not exceed kg at a time | 100 | Correct | 50 | Incorrect | 25 | Incorrect | 10 | Incorrect |
| 39 | M C | maximum quantity of explosives permitted by the licensing authority to be stored or processed in a particular premises is called | Magazine | Incorrect | Explosive Limit | Correct | Man Limit | Incorrect | Threshold Limit | Incorrect |
| 40 | M C | Pressure vessels containing corrosive or toxic gases, the periodic test shall be done at an interval of | 2 years | Correct | 5 years | Incorrect | 10 years | Incorrect | Every year | Incorrect |
| 41 | TF | Petroleum Class C means petroleum having a flash-point of 65 degrees Centigrade and above but below 95 degrees Centigrade | True | Incorrect | False | Correct | | | | |
| 42 | TF | In Zone 0 Area all electric apparatus installed or used shall be either a flame proof or intrinsically safe apparatus of a type or types approved in writing by the Chief Controller. | True | Incorrect | False | Correct | | | | |
| 43 | M C | As per explosive act, explosives are classified in to how may categories | 5 | Incorrect | 4 | Incorrect | 6 | Incorrect | 8 | Correct |
| 44 | TF | As per Petroleum rules license for storage of class c petroleum products is required when the quantity in possession exceeds 45000 L | True | Correct | False | Incorrect | | | | |
| 45 | TF | Petroleum shall not be loaded/ unloaded after unset | True | Incorrect | False | Correct | | | | |
| 46 | M C | Any cylinder, which loses in its tare weight | Recalibrated | Incorrect | Hydrostatically retested | Incorrect | Condemned | Correct | Pneumatically retested | |

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| | | by over 5 per cent, shall be | | | | | | | | |
| 47 | TF | A gas cylinder will have capacity between 0.5 liters to 1k liters | True | Correct | False | Incorrect | | | | |
| 48 | MC | A worker aged 40 met an accident during the course of employment. His last drawn monthly salary is 2000 rupees. Assuming relevant factor as 100, compensation payable to dependent is | 1,00,000 | Incorrect | 1,20,000 | Correct | 1,40,000 | Incorrect | Data insufficient | Incorrect |
| 49 | MC | Muniyappa, a welding worker aged 35 met with an accident and lost four fingers of his left hand while at work (i.e. in the course of employment). At the time he drew a monthly wage of Rs.10000/-. Assuming relevant factor as 100. The compensation payable is | 1,40,000 | Incorrect | 2,40,000 | Incorrect | 3,00,000 | Correct | Data insufficient | Incorrect |
| 50 | MC | Muniyappa, a welding worker met with an accident and lost his thumb finger (30% earning capacity reduction) while at work (i.e. in the course of employment). At the time he drew a monthly wage of Rs.2000/- The compensation payable is | 36,000 | Incorrect | 1,40,000 | Incorrect | 70,000 | Incorrect | Data insufficient | Correct |
| 51 | MC | Which of the following act is called Umbrella Act | Water Act | Incorrect | Air Act | Incorrect | Environmental Protection Act | Correct | Hazardous Waste Management Rule | Incorrect |
| 52 | MC | Which agency issues licenses for storing petroleum products | Chief Inspector of Factory | Incorrect | Inspector of Factories | Incorrect | PESO | Correct | MoEF | Incorrect |
| 53 | MC | Authorization for managing hazardous and other wastes shall be granted by | State Pollution Control Board | Correct | Central Pollution Control Board | Incorrect | Chief Inspector of Factories | Incorrect | MoEF | Incorrect |

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| 54 | TF | Instead of handing over the hazardous waste to authorized recycler, it can be handed over to authorized actual user. | True | Correct | False | Incorrect | | | | |
| 55 | MA | Hazardous waste can be stored (Select all that apply) | 90 days | Correct | 120 days | Incorrect | 180 days with approval from PCB | Correct | 240 days with approval from PCB | Incorrect |
| 56 | MA | While storing and transporting hazardous waste (Select all that apply) | Manifest system | Correct | Trem Card | Correct | Labelling | Correct | Follow provisions of Motor Vehicle Act | Correct |
| 57 | MA | After proper treatment of Hazardous waster which colored manifest copy will be under the custody of the sender (Select all that apply) | Blue | Correct | Gray | Incorrect | White | Incorrect | Yellow | Correct |
| 58 | TF | Factories Act is applicable to every industry which employ 10 or more workers (working with the aid of power) or 20 or more workers (without the aid of power) | True | Incorrect | False | Correct | | | | |
| 59 | MC | Manifest system for transport of hazardous chemicals shall be prepared in how many copies | Five | Incorrect | Seven | Correct | Three | Incorrect | Six | Incorrect |
| 60 | MC | TSDf stands for | Transport, Storage and Disposal Factory | Incorrect | Transport, Storage and Disposal Facility | Incorrect | Treatment, Storage and Disposal Factory | Incorrect | Treatment, Storage and Disposal Facility | Correct |
| 61 | TF | Bio-medical waste can be mixed with municipal solid waste | True | Incorrect | False | Correct | | | | |
| 62 | MC | Regarding E- Waste management rules UPES is considered as | Producer | Incorrect | Manufacturer | Incorrect | Consumer | Incorrect | Bulk Consumer | Correct |
| 63 | MC | Used Face mask shall be treated as per (Select most appropriate one) | Factories Rules | Incorrect | EPA | Incorrect | Bio Medical Waste Management Rules | Correct | Hazardous Waste Management Rule | Incorrect |

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| 64 | MC | Untreated Bio-medical waste shall no be kept more than | 24 Hours | Incorrect | 48 Hours | Correct | 7 Days | Incorrect | 2 Weeks | Incorrect |
| 65 | MC | Under normal circumstances E wastes can be stores up to | 90 Days | Incorrect | 180 Days | Correct | 240 Days | Incorrect | 356 Days | Incorrect |
| 66 | MC | Extended Producer Responsibility Plan shall be prepared by | Producer | Correct | Consumer | Incorrect | State Pollution Control Board | Incorrect | Central Pollution Control Board | Incorrect |
| 67 | MC | Extended Producer Responsibility Plan shall be authorized by | Producer | Incorrect | Consumer | Incorrect | State Pollution Control Board | Incorrect | Central Pollution Control Board | Correct |
| 68 | MA | While transporting explosives through road, the quantity shall not exceed (Select all that apply) | 10 tonnes | Correct | Maximum capacity of the vehicle | Correct | Maximum quantity permitted in International Maritime Dangerous Goods Code | Incorrect | | |
| 69 | MC | NDT stands for | Novel Destructive Testing | Incorrect | Non Destructive Testing | Correct | Non Diminishing Testing | Incorrect | None of the above | Incorrect |
| 70 | TF | A young worker, aged 17 possessing prescribed medical fitness can be engaged in petroleum refining premises | True | Incorrect | False | Correct | | | | |
| 71 | TF | Casual workers are not covered under Employee compensation act | True | Correct | False | Incorrect | | | | |
| 72 | MC | As per SMPV Rules Vessels of more than 100 KL water capacity meant for flammable, corrosive and toxic gases shall be periodically tested by competent person | Every Year | Incorrect | Every Two Years | Correct | Every Six Months | Incorrect | Every Five Years | Incorrect |
| 73 | MC | As per SMPV Rules Relief valves attached to a pressure vessel shall be tested by a competent person | Every Six Months | Incorrect | Every Year | Correct | Every Two Years | Incorrect | Every Five Years | Incorrect |
| 74 | TF | Hazardous Zone 0 area requires more stringent safety norms compared to Zone 1& 2 | True | Correct | False | Incorrect | | | | |

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| 75 | MA | In hazardous area Zone 2, permitted electrical equipment are (Select all that apply) | Intrinsically safe | Correct | Flame Proof | Correct | Purged Type | Correct | Oil immersed | Incorrect |
| 76 | MC | The body earth resistance value of a Diesel generator installed in a petroleum storage shed shall not be more than | 1 Ohm | Incorrect | 2 Ohm | Incorrect | 4 Ohms | Incorrect | 10 Ohms | Correct |
| 77 | TF | Petrol is a class A petroleum product | True | Correct | False | Incorrect | | | | |
| 78 | TF | Liquefied petroleum gas cylinder and cylinders containing liquefiable gases shall always be kept in horizontal position | True | Incorrect | False | Correct | | | | |
| 79 | TF | The employer of ABC steel factory asks an employee to work for 70 hours per week; including overtime. This involves legal compliance | True | Incorrect | False | Incorrect | | | | |
| 80 | MC | AMD is a licensed manufacturing company operating in Dehradun; for their civil extension work, the company employs 15 workers. AMD manager refuses to register under BOCW act stating that the company is already registered under factories act. | It is a legal compliance | Incorrect | It is legal non compliance | Correct | | | | |
| 81 | MC | ABC company ordinarily employees 450 workers in their factory. The labor welfare activities are taken care by safety officer (2 Marks) | This is a legal compliance because as the no of workers is less than 500 labor welfare officer appointment is not a mandatory requirement | Incorrect | This is a legal non compliance as safety officer shall not be engaged in activities other safety | Correct | | | | |

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| 82 | TF | In a company as per procedure e-waste are being disposed to authorized vendor every 5 months. This is in-line with the legal requirements (2 Marks) | True | Correct | False | Incorrect | | | | | |
| 83 | MC | During and internal audit it was found that company filed annual return under ISMW act for last year on 15th of February. (2 Marks) | It is a legal compliance | Incorrect | It is legal non compliance | Correct | | | | | |
| 84 | MC | ABC employs approximately 800 contract workers and the monthly wage disbursement day is fixed as seventh of preceding month (2 Marks) | It is a legal compliance | Correct | It is legal non compliance | Incorrect | | | | | |
| 85 | MC | During a safety walk in the oxygen cylinder used for gas cutting was found fitted with a valve conforming to IS: 3745 (2 Marks) | It is a legal compliance | Incorrect | It is legal non compliance | Correct | | | | | |
| 86 | MC | In a factory LPG cylinders approximately 50 kg stored without any license. (2 Marks) | It is a legal compliance | Correct | It is legal non compliance | Incorrect | | | | | |
| 87 | MA | A factory engaging 220 male and 125 female workers have 6 latrines respectively (Select all that apply) (2 Marks) | It is a legal compliance as only 4 latrines are required | Incorrect | For female workers it is full filling legal requirement | Correct | For male workers 7 latrines are required instead of 6 | Incorrect | | | |
| 88 | MC | In a factory the production head is appointed as the labor welfare officer (2 Marks) | It is a legal compliance | Incorrect | It is legal non compliance | Incorrect | Can't say more information required | Correct | | | |
| 89 | MC | ABC is a well reputed construction company having presence in pan India basis for a two day lifting activity in Haryana, they engage a mobile crane having a test certificate issued in Delhi (2 Marks) | It is a legal compliance | Incorrect | It is legal non compliance | Correct | | | | | |
| 90 | MC | In a company of 499 employees; safety committee meetings | It is a legal compliance | Incorrect | It is legal non compliance | Correct | Can't say more information required | Incorrect | | | |

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| | | are held twice per year(2 Marks) | | | | | | | | |
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