

P. P. SAVANI UNIVERSITY

Fifth Semester of B.Sc. Examination
Jan.-2021

SSFS3070-industrial hygiene and Occupational health

09.01.2021, Saturday Time: 12:30 p.m. to 03:00 p.m. Maximum Marks: 60

Section-A (Total Marks - 30)

- Q.1 Very Short Questions (attempt all questions) (10)**
1.1 Objectives (10MCQ Compulsory-0.5 mark each) 05
- 1.1a** Occupational hygienists usually move through several steps sequentially when solving problems which is the right order of steps
- A Evaluation, anticipation, recognition, control
 - B Anticipation, recognition, evaluation, control
 - C Recognition, anticipation, evaluation, control
 - D Anticipation, evaluation, recognition, control
- 1.1b** The most well know DELs are established by
- A NIOSH
 - B OSHA
 - C ANSI
 - D ACGIH
- 1.1c** The ACGIH TLVs
- A Protect all workers
 - B Are developed by consensus
 - C Are science based
 - D Are a legal standard for what is safe
- 1.1d** The three ACGIH TLVs are
- A PEL, TWA, WEEL
 - B TWAEV, CEV
 - C TWA, STEL, C
 - D PEL, TWAEV
- 1.1e** LD50 Stands for
- A Linear dilution 50%
 - B Lethal does 50%
 - C A concentration that kills 50%
 - D Liquid death at 50mg
- 1.1f** A typical simple asphyxiant in the workplace is
- A Carbon dioxide
 - B Carbon monoxide
 - C Ammonia
 - D Cyanide
- 1.1g** Which is not a chemical asphyxiant
- A CO
 - B H
 - C Ammonia
 - D Nitrogen
- 1.1h** Local effects of chemicals the skin are relatively easy to prevent by
- A Screening workers upon hiring for their skin sensitives
 - B The use of gloves
 - C Local ventilation
 - D None of above
- 1.1i** Which is not a pesticide known to cause skin disorders
- A Arsenic
 - B Pentachlorophenol's
 - C Acetone
 - D Cresols

- 1.1j General ventilation is also called ____ ventilation
- A Dilution
 - B Secondary
 - C Workplace
 - D Point
- 1.2 **Five Questions (Definitions-1 mark each)** 05
- 1.2a Health
 - 1.2b Hygiene
 - 1.2c First aid
 - 1.2d Antidot
 - 1.2e Safety
- Q.2 **Short Notes (attempt any two- 3 marks each)** 06
- A Explain in detail First Aid
 - B What is ergonomics
 - C How many types Routs of entry of hazardous substance into the body
- Q.3 **Explain in detail (attempt any two-7 marks each)** 14
- A Explain in detail work co-ordinate industrial hygiene
 - B Effects of vibration and prevention it's in detail
 - C Cause and effects of stress and its prevention in detail

Section-B (Total Marks - 30)

- Q.1 Very Short Questions (attempt all questions) (10)**
1.1 Objectives (10 MCQ Compulsory-0.5 mark each) 05
- 1.1a** When the sound intensity from a source is doubled the approximate decibel level increases by
A 3
B 4
C 5
D 6
- 1.1b** One tenth of the unit used for measuring sound is the
A Dyne
B Newton
C Decibel
D Kilopascal
- 1.1c** Under the OSH act employers are responsible for providing a _____
A Safe workplace
B Land
C Insurance
D Estimation
- 1.1d** OSHA was created to _____
A Data analysis
B To reduce hazard
C Ecological development
D ETA analysis
- 1.1e** OSHA assignment is to set standards and conduct _____
A Inspection
B Tests
C Analysis
D Estimation
- 1.1f** The world health day is celebrated on
A 15th march
B 7th April
C 6th October
D 10th December
- 1.1g** Cleanliness, Physical exercise, rest and sleep are a part of _____
A Hygiene
B Social hygiene
C Personal hygiene
D None of the above
- 1.1h** Which one of the following is an unhealthy habit?
A Eating fried food
B Bathing twice a day
C Drinking boiled water
D Eating without washing one's hands
- 1.1i** Which would be an expected effect of resistive breathing training in a client with COPD?
A Energy conservation
B Increased oxygen saturation
C Decrease hypercarbia
D Increased respiratory muscle strength
- 1.1j** In COPD there is an increased surface area of gas exchange
A TRUE
B FALSE

1.2	Five Questions (Definitions-1 mark each)	05
1.2a	MAH	
1.2b	Risk	
1.2c	Unsafe act	
1.2d	Accident	
1.2e	Incident	
Q.2	Short Notes (attempt any two- 3 marks each)	06
A	Discussed about MAH	
B	Explain types of skin hazard	
C	What is health	
Q.3	Explain in detail (attempt any two-7 marks each)	14
A	Explain in detail Safe water supply	
B	Explain in detail Anatomical factor in dust injuries	
C	What about Anatomical factor in dust injuries	