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SARDAR PATEL UNIVERSITY
M.Sc. (EST) (Second Semester) Examination
Thursday, 19 April, 2018
10.00 am to 1.00 pm

PS02EEST21: Industrial Hygiene and Occupational Health

Max. Marks: 70
[08]

Q.1. Multiple Choice Questions (Choose Correct Answer)

- (1) Following is not an example of non-ionizing radiation.
 (a) IR (b) Microwave (c) X-rays (d) LASER
- (2) Following is the best example of opportunistic ingestion.
 (a) Eating Manchurian (b) Drinking Faluda
 (c) Sipping Water (d) Taking Dinner
- (3) Following is a causative factor for ionizing radiation.
 (a) IR (b) Microwave (c) Neutrons (d) LASER
- (4) Following is not an ancient metal.
 (a) Pb (b) Hg (c) Be (d) Zn
- (5) Following is uncommon route of entry of chemicals into your body.
 (a) Ingesting food (b) Sipping water
 (c) Percutaneous absorption (d) Inhalation of gases
- (6) TLV of CO for 8 hours is _____ ppm.
 (a) 10 (b) 30 (c) 50 (d) 70
- (7) Following is the most suitable to Bagassosis.
 (a) Occupational Silicosis (b) Occupational Bysinosis
 (c) Occupational Asthma (d) Occupational Asbestosis
- (8) Good house-keeping should be as per _____ rules.
 (a) EHS (b) SHE (c) OSHA (d) None

Q.2. Write a Short Note on followings (Any Seven).

- (1) Define: Industrial Hygiene (IH)
- (2) Define: Occupational Health (OH)
- (3) Difference between injury, symptoms, disease, disorder, and syndrome
- (4) Differentiate between hazard and risk
- (5) Draw flowcharts of types of air contaminants and particulates
- (6) Explain: Ignitability, Flammability, Corrosiveness, Toxicity, Reactivity, Solubility
- (7) Note on mist and sensitizers
- (8) Note on title of this paper
- (9) What is whole body vibration? Name some occupations exposed to it.

- Q.3. (a) Write a note on physical hazards in detail. [06]**
(b) Describe in detail about chemical hazards. [06]

OR

- (b) Briefly explain biological hazards. [06]**

- Q.4. (a) Write a note on types, health hazards, and effects of industrial dusts. [06]**
(b) Explain: Local, Systemic, Acute & Chronic effects of industrial chemicals, and their routes of exposure in workers. [06]

OR

- (b) Write an explanatory note on industrial gases. Add a note on good computer working station. [06]**

(C.P.T.O.)

- Q.5. (a) Describe in detail about Ambulance Van. [06]
(b) Write a detailed note on PPEs. [06]
- OR
- (b) Expand & Explain: TLV, TWA, STEL [06]
- Q.6. (a) Enlist and explain activities associated with Occupational Health Center. [06]
(b) Discuss Local Exhaust Ventilation. [06]
- OR
- (b) Expand & Explain: PEL, IDLH, AOTL [06]

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