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SEAT No. \_\_\_\_\_

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**SARDAR PATEL UNIVERSITY**  
**M.Sc. (EST) (Second Semester) Examination**  
**Tuesday, 26 March, 2019, 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 \_\_\_\_\_.  
(a) EHS (b) OSHA (c) GFR, 1963 (d) None

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

- (1) Define: Industrial Hygiene (IH) & Occupational Health (OH)
- (2) Draw flowcharts: Types of air contaminants, Particulates
- (3) Enlist safety and preventive health measures
- (4) Expand Terms: ACGIH, FGI, FMCG, MNC
- (5) Explain: Ignitability, Flammability, Corrosiveness, Toxicity, Reactivity, Solubility
- (6) Fibers, units of concentration, mist, sensitizers
- (7) Hand-arm vibration and occupations involved
- (8) Health hazards in building construction industries
- (9) Industrial nutrition

- Q.3. (a) Write a note on physical, chemical, biological, ergonomic and social hazards in detail. [06]**  
**(b) Describe purpose, recognition, evaluation and control of IH. Add a note on control pathway, methods of control, hierarchy of control and engineering control. [06]**

**OR**

- Q.4. (b) Explain in detail: TLV, TWA, STEL, PEL, IDLH, AOTL [06]**  
**(a) Describe work physiology in detail with suitable examples. [06]**  
**(b) Write a detailed note on occupational workshop units. [06]**

**OR**

- Q.5. (b) Discuss occupational health services in detail. [06]**  
**(a) Enlist and explain activities associated with occupational health center. [06]**  
**(b) Write a detailed note on PPEs. [06]**

**OR**

- Q.6. (b) Discuss ideal computer working station with a proper diagram. [06]**  
**(a) Briefly explain hazards in cement industry. [06]**  
**(b) Describe in detail about Ambulance Van. [06]**

**OR**

- (b) Discuss Local Exhaust Ventilation. [06]**