

Name:
Enrolment No:



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

Programme Name: B. Tech. (FSE)

Semester : IV

Course Name : Occupational Health & Hygiene Management

Time: 02 hrs Course Code : HSFS 3004

Max. Marks: 100

Nos. of page(s) :1

SECTION A

S. No.		Marks	CO
Q.1	In recent scenario corona virus is biggest threat to entire world. Identify different routes of exposure of bacteria and viruses.	4	CO2
Q.2	Describe briefly chances of chemical exposure while cleaning shop-floor of automobile industry,	4	CO3
Q.3	An employee engaged in general cleaning activities in a large veterinary practice. Identify four specific types of hazard that the cleaner might face when undertaking the cleaning.	4	CO2
Q.4	Cadmium has adverse health effects on workers. Discuss health effects of cadmium.	4	CO5
Q.5	Occupational health & Safety videos can play important role in reducing occupational diseases/ accidents in industries. Justify your opinion.	4	CO4

SECTION B

Q.6	Discuss briefly health effects of noise and control measures.	10	CO1
Q.7	List out gases, which are toxic in their nature. Analyze health effects of chlorine and benzene along-with their treatment options.	10	CO2
Q.8	Describe various types of hazards in industries and possible measures to reduce or eliminate these workplace hazards.	10	CO2
Q.9	Workplace ergonomics hazards are gaining attention of management. Demonstrate your knowledge on controlling of this type of hazards as per recommendations of OSAHA. Or PPE is the last option to control hazards. Execute your knowledge on various PPE, which plays important role in managing hazards.	10	CO5

SECTION-C

Q.10	List out objectives of medical surveillance in any hazardous industry. Describe methods of developing medical surveillance program.	20	CO4
Q.11	<p>Worldwide industries are using modern technology to avoid accidents but still accidents are happening. First aid training is important component to reduce the impact of minor & major injury. Discuss in detail first aid procedure.</p> <p style="text-align: center;">OR</p> <p>Asbestos is the most needed material required by industries due its unique properties but due to health effects, it is banned worldwide. Demonstrate your knowledge on asbestos.</p>	20	CO3

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Q.3	Ratan works for 6 hours 40 minutes on a process in which he is exposed to a chemical substance hazardous to health. The average exposure during that period is measured as 3.12 mg.m-3. Calculate 8 hour TWA.	4	CO3
Q.4	Cadmium has adverse health effects on workers. Discuss health effects of cadmium.	4	CO5
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