

Name:
Enrolment No:



UNIVERSITY OF PETROLEUM AND ENERGY STUDIES
End Semester Examination, May 2021

Course: B.Tech FSE

Semester: IV

COURSE CODE: HSFS 7003

Programme: Occupational Health and Hygiene Management

Time: 03 hrs.

Max. Marks: 100

Instructions: Read the question properly and give the most relevant answer

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.	5	CO1
Q.2	Define occupational health & industrial hygiene.	5	CO1
Q.3	An employee working at construction site. Identify four specific types of hazard that the worker might face when undertaking his job.	5	CO2
Q.4	Asbestos is having properties that is required for number of application in industries but at the same time, it is very harmful. Explain in brief its uses and harmful effects.	5	CO2
Q.5	List out various aids, which you will use to create awareness on OHS issues at your industry.	5	CO2
Q.6	Identify personal hygiene issues while entering in to any mall in current scenario.	5	CO2

SECTION B

Q.7	2020 & 2021 are the year's people will try to erase from their memory due to biological hazard (COVID-19). Demonstrate your knowledge on biological hazard and its control options.	10	CO5
Q.8	Describe in detail various physical & chemical hazards. What are common methods of eliminating, minimizing and controlling hazards?	10	CO5
Q.9	In a cement plant, a worker works for 6 hours 20 minutes and he is expose to cement dust, which is hazardous to health. The average exposure during that period is measure as 10.40 mg.m-3. Remaining time he was working on cleaning activities of his workplace average exposure during that period is measure as 2.50 mg.m-3, calculate TWA for 8 hrs. Exposure.	10	CO4

Q.10	Investigate chemical decontamination procedure to prevent continued contact of harmful substances with protective clothing, protective breathing apparatus, and other equipment.	10	CO5
Q.11	Analyze program elements of an effective program designed to eliminate ergonomic hazards in the workplace of a sanitary industry.	10	CO5
SECTION-C			
Q12	Demonstrate your knowledge on “Medical Surveillance”. Discuss in detail various components of medical surveillance program development. Or Chromium and lead are widely used in industries. Analyze health effects of chromium and lead.	20	CO5/CO3