

Name:

Enrolment No:



**UNIVERSITY OF PETROLEUM AND ENERGY STUDIES**  
**End Semester Examination, April/May 2018**

**Course: B.Tech(Applied Petroleum Engineering with gas specialization)**

**Semester: VI**

**Program: B.Tech(Applied Petroleum Engineering with gas specialization)**

**Time: 03 hrs.**

**Subject- Safety, Health and Environment Management.**

**Code:ENVO405**

**Max. Marks: 100**

**Instructions:** \*The question paper consists of three sections. Answer the questions section wise in the answer booklet.

**Note:** Assume suitable data wherever necessary

**SECTION A**

**Attempt all the questions. All questions carry equal marks**

**Total Marks=20**

S. No.		Marks	CO
Q 1	Define what do you mean by occupational injury and occupational illness.	4	CO1
Q2	Discuss what do you mean by inherent safety.	4	CO2
Q3	Define toxicology and also briefly discuss how toxicants enter biological organisms.	4	CO2
Q4	Define Threshold Limit Values(TLVs).	4	CO3
Q5	Define the three phases of industrial hygiene project.	4	CO4

**SECTION B**

**(Answer all questions, Total Marks=40)**

Q6	Discuss in details Risk Management Plan.	8	CO5
Q7	Discuss how will you evaluate worker exposure to noise and dusts.	8	CO2
Q8	Discuss in details how will you estimate worker exposures to toxic vapors.	8	CO4
Q9	Discuss briefly toxic release and dispersion models.	8	CO6
Q10	Describe and discuss parameters affecting dispersion.	8	CO5

**SECTION-C (Total Marks-40)**  
**Answer both the questions.**

Q11	Discuss about fires and explosions in chemical plants. In source models, discuss in details flow of liquid through a hole.	<b>20</b>	<b>CO5</b>
Q12	Discuss and describe chemical plant control tools in industrial hygiene.	<b>20</b>	<b>CO6</b>