

Code No: **R41273 R10**

Set No. 1

IV B.Tech I Semester Supplementary Examinations, February/March - 2018 HSE & FF IN PETROLEUM INDUSTRY

(Petroleum Engineering)

Time: 3 hours Max. Marks: 75

Answer any FIVE Questions All Questions carry equal marks

1	a)	What are the air pollutants generated during drilling and production operations? Explain with details.	[8]
	b)	Describe various waste management methods employed in Oil & Gas Upstream industry.	[7]
2	a)	Explain about the heavy metals present in drilling fluid and separation process.	[8]
	b)	Explain about the wastes produced during fracturing operations and the process of treatment.	[7]
3	a) b)	Explain the method of treatment for Air Emissions. Explain about surface and sub surface waste disposal methods.	[7] [8]
4	a) b)	State the precautions to be taken as per regulations after blow out occur. State the general safety provisions as per oil mines regulations.	[8] [7]
5		Explain the stage wise process of toxicity entering into Biological Organisms.	[15]
6	a)	How do you carry out HAZOP for Matrix Acidizing Operations?	[8]
	b)	How do you develop a good safety management system for the upstream oil and gas industry?	[7]
7	a)	Explain about Flammability Limits.	[8]
	b)	What is a work permit? Explain with an example.	[7]
8		Write short notes on the following	
		a) Distinguish fires and explosions with suitable examples	
		b) Hazard identification methods a) Floremodelity characteristics of liquids and various.	[15]
		c) Flammability characteristics of liquids and vapours	[15]