

<b>Name:</b>	 <b>UPES</b> UNIVERSITY WITH A PURPOSE
<b>Enrolment No:</b>	

**UNIVERSITY OF PETROLEUM AND ENERGY STUDIES**  
**End Semester Examination, May 2019**

<b>Course: B.Tech CSE OGI</b>	<b>Semester: II</b>
<b>Program: Upstream Petroleum: Exploration and Production</b>	<b>Time 03 hrs.</b>
<b>Course Code: CSOG 2002</b>	<b>Max. Marks: 100</b>

**Instructions: Attempt all question in the given sequence.**

**SECTION A**

S. No.		Marks	CO
Q 1	Recall Inorganic or Abiogenic Theory for origin of Hydrocarbon.	4	CO1
Q 2	List various factors responsible for generation of Hydrocarbon.	4	CO2
Q 3	Illustrate Palaeogeomorphic Traps.	4	CO2
Q 4	Explain well prognosis and list various information extracted while well prognosis	4	CO3
Q 5	List various Environmental effect of Exploration and Production	4	CO5

**SECTION B**

Q 6	Relate different application area of directional drilling in petroleum exploration.	10	CO3
Q 7	Illustrate the concept of migration and define different natural formation responsible for migration?	10	CO2
Q 8	Interpret different types of well logging methods used during exploration. <b>Or</b> Demonstrate open-hole, cased-hole and production logging methods in exploration	10	CO4
Q 9	Define depreciation rate in Oil and Gas company and internal rate of return.	10	CO4

**SECTION-C**

Q 10	a) Sketch Oil and Gas Filed cycle with proper explanation. b) Elaborate fluid Density Log <b>Or</b> a) Elaborate resistivity Log. b) Why casing is importance and how many types of casing is their?	20	CO1, CO3
Q 11	Write short notes on the following: a) Impact of E & P on Education Sector b) Value of Money with respect to hydrocarbon c) GIS in E & P d) Magnetic Survey	5*4	CO1,C O5