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**UNIVERSITY OF PETROLEUM AND ENERGY STUDIES**

End Sem Examination, December 2018

Program : MBA (OG) Semester : III  
Subject (Course): Supply Chain & Logistics for Petroleum Industry Max. Marks : 100  
Course Code : LSCM8009 Duration : 3 Hrs

**SECTION – A**

Fill in the blanks. Each Q carries two marks.

**Max Marks – 20**

	Marks	CO
1. Class A petroleum products have flash point below _____ degrees C.	2	1
2. Full form of PESO is _____.	2	1
3. Under _____, transporter has to ensure that integrity of tank truck locking system is maintained.	2	3
4. Three main phases of supply chain decisions are _____, planning & operations.	2	4
5. Under FOB contract _____ bears all costs for bringing goods to load port.	2	2
6. Each BTPN rank wagon has a unique _____ digit ID number.	2	2
7. With computerization Railways have developed tank wagon rake _____ system.	2	3
8. Under tanker terminology, full form of DWT is _____.	2	4

9. _____ plays direct role in minimization of product positioning cost.	2	4
10. For transporting large volumes of bulk petroleum products across the country, availability of adequate _____ is necessary.	2	4

### SECTION- B

**Analyze following for Supply Chain.**

**Max Marks – 20**

	Marks	CO
1. IEA.	5	1
2. INCO Terms.	5	3
3. OPEC.	5	2
4. Role of National Oil Companies.	5	3

### SECTION- C

**Each Q carries ten marks.**

**Max Marks – 30**

	Marks	CO
1. Describe various challenges for logistics of petroleum in India with focus supply demand mismatch, coastal movements, pipeline scheduling, inventory rationalization etc.	10	2
2. Why is road transportation used by oil industry despite not being an economic mode? Explain the use of modern technology at terminals for tank truck loading operations.	10	4

3. Describe the key elements of sea transportation of petroleum by tankers covering service and size classification, chartering, sabotage law and various losses encountered in voyages.	10	1
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**SECTION- D**

**Answer in Length**

**Max Marks – 30**

	Marks	CO
1. Pipelines are lifelines of petroleum supply chain. Elaborate giving emphasis on factors for use of pipelines as a preferred mode, interface generation/handling, quality aspects, maintenance related issues etc. Give names of two pipelines in use for product pumping and two pipelines in use for crude oil pumping in India.	30	4