

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

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

<b>Program: MBA Power Management</b> <b>Subject (Course): Fuel and Water resources Management</b> <b>Course Code : PIPM8001</b> <b>No. of page/s: 2</b>	<b>Semester – III</b> <b>Max. Marks: 100</b> <b>Duration: 3 hrs.</b>
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**SECTION A**

		Marks	CO
Q 1	State the Calorific value of the types of Non-coking Coal: i. G1 ii. G4 iii. G17 iv. G7 v. G6	10	CO1
Q2	Complete the abbreviations  1. FOB 2. CIF 3. GAR 4. NAR 5. NELP 6. OALP 7. OPEC 8. MCL 9. SCCL 10. CIL	10	CO1

**SECTION B ( Attempt any 4 Questions)**

Q1	What is ultimate and proximate analysis of coal? Explain in detail the ultimate analysis.	5	CO2
Q2	Differentiate primary, secondary and tertiary energy with suitable examples	5	CO1,C O2
Q3	What are the important tests for choosing elementary price indices?	5	CO2
Q4	Explain Coal Price Index.	5	CO1

Q5	Name the top five countries from where we import coal.	5	CO3																			
<b>SECTION-C ( Attempt any 2 Questions)</b>																						
Q 1	Role of NELP in Indian upstream industries. The shift to OALP, is it advantage? The way forward if it is HELP, then apply the above-mentioned policies in India context and draw a comparison for higher production of fuels.	15	CO2,C O3																			
Q2	From below, mentioned data find out the total energy change by finding out Activity effect, Structural effect and energy intensity change.	15	CO3																			
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th rowspan="2">Year</th> <th colspan="2">Sector 1</th> <th colspan="2">Sector 2</th> </tr> <tr> <th>GDP</th> <th>Energy Use</th> <th>GDP</th> <th>Energy Use</th> </tr> </thead> <tbody> <tr> <td>2017</td> <td>125</td> <td>250</td> <td>100</td> <td>300</td> </tr> <tr> <td>2018</td> <td>200</td> <td>350</td> <td>250</td> <td>500</td> </tr> </tbody> </table>				Year	Sector 1		Sector 2		GDP	Energy Use	GDP	Energy Use	2017	125	250	100	300	2018	200	350	250	500
Year	Sector 1				Sector 2																	
	GDP			Energy Use	GDP	Energy Use																
2017	125			250	100	300																
2018	200	350	250	500																		
Q3	What is the methodology for fixing Floor/Reserve Price for Auction and Allotment of Coal Mines/Blocks.	15	CO2,C O4																			
<b>SECTION-D</b>																						
Q1.	How a business model can be developed for round the clock power supply by mixing various power sources. Mention the challenges and their mitigation policy also.	30	CO2,C O3,CO 4																			