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UNIVERSITY OF PETROLEUM AND ENERGY STUDIES

End Semester Examination, May 2018

Program:	B-Tech	Semester –	2nd
Subject (Course):	Workshop Technology	Max. Marks :	100
Course Code :	MEPD101	Duration :	3Hrs.
No. of page/s:	1		

Section A [20 Marks]

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| 1. | Enlist the different ingredients of molding sand and specify the percentage of each ingredient. | 5 | CO5 |
| 2. | Differentiate between Cast iron, Wrought iron & Mild steel. | 5 | CO1 |
| 3. | Explain the use of filler metal in welding. | 5 | CO2 |
| 4. | Explain punching and blanking. | 5 | CO4 |

Section B [40 Marks]

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| 5. | Explain nibbling, notching, lancing and perforating operation used in sheet metal working. | 10 | CO2 |
| 6. | Explain any five fitting tools used in workshop, with the help of neat sketches. | 10 | |

OR

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| | Explain tolerance, limits of sizes, upper deviation & lower deviation. Describe three types of fit with neat sketches. | 10 | CO4 |
| 7. | Classify and explain seasoning of wood. | 10 | CO4 |
| 8. | Explain five difference between hot working & cold working | 10 | CO5 |

Section C [40 Marks]

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| 9. | a) Explain different types of weld joint with the help of proper sketches | 5 | CO2 |
| | b) Explain the Arc Welding process with different Polarities used for it. | 15 | |

OR

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|-----|---|----|-----|
| | a) Explain any five welding defects. | 10 | |
| | b) Explain difference between soldering & brazing. | 5 | CO2 |
| | c) Describe TIG welding briefly. | 5 | |
| 10. | a) Explain five operations performed on a Lathe machine with the help of diagrams. | 10 | CO5 |
| | b) Draw a sketch of lathe machine and explain any five parts or accessories related to lathe machine. | 10 | |