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| Name: |  |
| Enrolment No: | |

UNIVERSITY OF PETROLEUM AND ENERGY STUDIES

End Semester Examination, December 2019

Course/Code: Safety in Engineering Industry

Semester: VII

Programme: B.Tech-Fire and safety Engg.

Course Code: FSEG 415

Time: 03 hrs.

Max. Marks: 100

Instructions: Read the questions properly and give the most relevant answer

SECTION A

| S. No. | | Marks | CO |
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| Q01 | List the hazards and safety measures to be followed while handling grinding machine. | 4 | CO1 |
| Q02 | Describe the health effects of heat radiation, sources of heat radiation in engineering industry and its control measures. | 4 | CO3 |
| Q03 | Explain the filter lens shade number required for welding process. Highlight the relevance of various designated filter lens shade number used during welding operation | 4 | CO2 |
| Q04 | .Discuss the hazards in effluent treatment plant. | 4 | CO2 |
| Q05 | List any 8 gas cylinder colour codings. | 4 | CO1 |

SECTION B

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| Q06 | List the various hazards and their safety precautions to be followed during rolling operation. | 10 | CO3 |
| Q07 | Discuss the safety precautions to be followed while handling hooks and chain slings with proper sketch wherever possible. | 10 | CO2 |
| Q08 | .Categorize the dangerous areas to perceive in any machines and list out the various hazards with possible examples. | 10 | CO2 |
| Q09 | Discuss about various hazards in handling industrial gas cylinders (Or) Highlight the possible accidents that can occur while working power press and also detail the control measures for the same. | 10 | CO1 |

SECTION-C

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| Q10 | a) List out the objectives of material handling b) Explain the principles of material handling. c) Discuss the factors affecting the selection of materials handling | 7+ 7+6 | CO1 &CO3 |
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| Q11 | <p>a) Write about various types of guarding and guarding devices in detail.</p> <p>b) Consider one of your employee is electrocuted in your industry after sometime he was found fatal. Which kills the person current or voltage.? Discuss your view with proper justification.</p> <p style="text-align: center;">(Or)</p> <p>a) Enumerate the possible accidents that can happen while lifting operation(consider somethings you are lifting using crane)</p> <p>b) Write about the hazards and safety precautions to be followed while filling and handling of acetylene gas cylinder</p> <p>c) Explain the principles of guarding</p> | | CO3 &CO2 |
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