Name:

Enrolment No:



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

Course: BBS & Human Factor Engineering Program: B Tech FSE Course Code: HSFS 2009

Semester: III Time 03 hrs. Max. Marks: 100

Instructions:

| | | SECTIO | ON A | | | | |
|--------|---|-------------------|-------------|---|-----|--|--|
| S. No. | | Marks | CO | | | | |
| Q 1 | What do you understand b | 4 | CO2 | | | | |
| Q 2 | Outline various lagging an | 4 | CO2 | | | | |
| Q 3 | Why the 'percentile' concept in used in ergonomic designs? | | | | CO3 | | |
| Q 4 | Differentiate safety audit and inspection | | | | CO2 | | |
| Q 5 | Differentiate attitude and b | 4 | COI | | | | |
| | | SECTI | ON B | I | | | |
| Q 6 | What is hierarchy of risk control? Discuss hierarchy of risk control using suitable examples. | | | | CO2 | | |
| Q 7 | Define confined space. W these hazards can be effec | 3+3+4 | CO2 | | | | |
| | What is work permit syste | 3+7 | | | | | |
| Q 8 | What are the objectives of accident investigation?. 'Every accident is a symptom of system failure'- Justify. | | | | CO4 | | |
| Q 9 | What is the philosophy of improve behaviors. | ^{io} 4+6 | CO1 | | | | |
| | | SECTIO | DN-C | | | | |
| Q 10 | Average number of emplois given below. Total wo hours for any employee w works were performed due | g | CO5 | | | | |
| | Time period- 2019 | Morning Shift | Night Shift | | | | |
| | January to April | 1000 | 1000 | | | | |

| | May to August | 2000 | 1000 | | |
|------|---|------------------------|------|--|-----|
| | Sept to Dec. | 1000 | 2000 | | |
| | The following are the |) | | | |
| | a) Number o b) Number o c) Number o d) Number o Calculate reportable a rates for the year 2017 | ncidence | | | |
| Q 11 | a. What is CTD? Discus CTD? Explain the ergon | contribute 3+7+ 4+6 | | | |
| | Or b. What do you mean by Human Factor Engineering? How its effective implementation will improve the health, safety and the productivity of working population? | | | | CO3 |