Name: Enrolment No:		

UNIVERSITY OF PETROLEUM AND ENERGY STUDIES
End Semester Examination, Dec 2020

Course: Cognitive Analytics	**Semester: 5**
Program: B. Tech CSE splz AIML	**Time 03 hrs.**
Course Code: CSBA3009	**Max. Marks: 100**

SECTION A			
No.		**Marks**	**CO**
Q1	What are the features of cognitive computing and their impact?	**5**	**CO1**
Q2	What are taxonomies and ontologies in knowledge representation?	**5**	**CO2**
Q3	Does business needs plays a critical role or technical specifications when developing solutions through cognitive intelligence? (Yes / No)	**5**	**CO3**
Q4	Machine learning is always supersedes Cognitive Intelligence. (Yes / No)	**5**	**CO1**
Q5	Cognitive intelligence does --------- applications beyond human intelligence	**5**	**CO2**
Q6	---------- data, --------- analytics & ---------- computing acts as the core component in achieving cognitive intelligence-based analytics in larger business applications	**5**	**CO3**
SECTION B			
Q7	Explain the process of hypothesis generation and scoring?	**10**	**CO1**
Q8	Explain the 4 V's of big data and their association with cognitive computing?	**10**	**CO2**
Q9	With a diagram demonstrate different phases of developing machine learning model.	**10**	**CO1**
Q10	State various data preprocessing methods and when can they be effectively applied for developing a refined dataset?	**10**	**CO2**
Q11	Why was cloud computing role effective in cognitive analytics? What specific challenges it will be able to meet and how?	**10**	**CO2**
SECTION-C			
Q12	When it comes to predictive analytics, regression and clustering are often used effectively to refine and understand the data. Considering the dataset of your marks, do define a complete model that effectively indicate multiple stages of modeling and thereby justify which methodology (regression or clustering) can be more accurate in predicting the overall CGPA after 8 terms of your programme. (Marks will be distributed to each of the phase in the model and long with evaluation criteria. Failure to reflect the structured way of solution will result in poor performance)	**20**	**CO3**