	BCM SCHOOL, BASANT AVENUE, DUGRI ROAD, LUDHIANA **ASSIGNMENT (Paper Pattern)** **CLASS- X** **SUBJECT- ARIFICIAL INTELLIGENCE(417)**	
Q1.	**Answer the given questions on Employability Skills**	
i.	"Efforts are made to increase the solar power generation so that our electricity needs are met and at the same time we do not pollute the environment or use up natural resources". Which SDG can you relate this statement to? (a) Life on land (b) Clean water and sanitation (c) Affordable and clean energy (d) Reduced inequalities	
ii.	When you bring the mouse over a file in File Explorer, it will show the details of that file. This is known as (a) Drag and drop (b) Double click (c) Hover (d) Single click	
Q2.	**Answer the given 6 questions**	
i.	Statment1: There are four layers in a neural network. Statement2:The first layer of the neural network is known as the output layer. (a) Both Statement1 and Statement2 are correct (b) Both Statement1 and Statement2 are incorrect (c) Statement1 is correct but Statement2 is incorrect (d) Statement2 is correct but Statement1 is incorrect	
ii.	Assertion (A)– One can be a good singer while the other can be a great athlete. Reason(R) – Humans possess different types of intelligences but at different levels. (a) Both A and R are correct and R is the correct explanation of A (b) Both A and R are correct but R is not the correct explanation of A (c) A is correct but R is not correct (d) A is not correct but R is correct	
Q3.	**Answer the given questions**	
i.	Which of the following is an application of data science? (a) Text summarization (b) Target Advertisements (c) Face lock in smartphones (d) Email filters	
ii.	F1 Score is the measure of the balance between (a) Accuracy and Precision (b) Precision and Recall (c) Recall and Accuracy (d) Recall and Reality	
Q4.		
i.	Statment1: The output given by the AI model is known as reality. Statement2:The real scenario is known as Prediction. (a)Both Statement1 and Statement2 are correct (b)Both Statement1 and Statement2 are incorrect (c) Statement1 is correct but Statement2 is incorrect (d) Statement2 is correct but Statement1 is incorrect	
ii.	Raman has made a model which predicts the performance of Indian Cricket players in upcoming matches. He collected the data of players' performance with respect to stadium, bowlers, opponent team and health. His model works with good accuracy and precision value. Which of the statement given below is incorrect? (a) Data gathered with respect to stadium, bowlers, opponent team and health is known as Testing Data. (b) Data given to an AI model to check accuracy and precision is Testing Data. (c) Training data and testing data are acquired in the Data Acquisition stage. (d) Training data is always larger as compared to testing data.	
Q5.	**Answer the given 6 questions**	
i.	_____ means a picture element which is the smallest unit of information that makes up a picture. (a) Vision (b) Pics (c) Pixel (d) Piskel	
ii.	Which one of the following scenario result in a high false positive cost? (a) viral outbreak (b) forest fire (c) flood (d) spam filter	
	SECTION B: SUBJECTIVE TYPE QUESTIONS **Answer the givenquestions on Employability Skills**	

Q6.	How is society helping entrepreneurs in their business?	
Q7.	What is the importance of setting goals in life? .	
	Answer the given questions in 20 – 30 words	
Q8.	Aman wants to access data from various sources. Suggest him any two points that he needs to keep in mind while accessing data from any data source.	
Q9.	Sirisha and Divisha want to make a model which will organize the unlabeled input data into groups based on features. Which learning model should they use and why?	
	Answer the given questions in 50– 80 words each	
Q10.	Your grandmother watches you use AI applications. She wants to understand more about it. Help her understand the term artificial intelligence by giving the right definition and explain to her with an example how machines become artificially intelligent.	
Q11.	We, human beings, can read, write and understand many languages. But computers can understand only machine language. Do you think we might face any challenges if we try to teach computers how to understand and interact in human languages? Explain.	