

**ASSIGNMENT**  
**CLASS X**  
**ARTIFICIAL INTELLIGENCE (CODE 417)**

**SECTION A – OBJECTIVE TYPE QUESTIONS**

**1. Questions on Employability Skills**

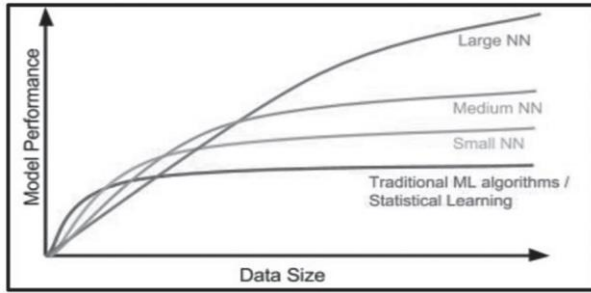
- (i) “M D Gulati started with a small shop. With his focus, dedication and clear ideas, MDH became one of the most popular brands in India besides, having a good reputation all over the world.”  
Which self-management skill is clearly visible in the given statement?
- (ii) When you bring the mouse over 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
- (iii) **Assertion (A):** A doctor works for a renowned hospital.  
**Reason (R):** The statement given above is an example of wage employment.  
(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
- (iv) \_\_\_\_\_ the work is all about identifying and noting how we spent our time and analyzing how to spend our time effectively.  
(a) Organizing (b) Prioritizing  
(c) Controlling (d) Tracking
- (v) Remya travelled to Sweden from India to pursue her higher education. But she does not know how to speak Swedish (language of Sweden). Because of this, she was unable to find a part-time job. This is an example of \_\_\_\_\_.  
(a) Interpersonal barrier (b) Physical barrier  
(c) Organizational barrier (d) Linguistic barrier

**2.**

- (i) **Assertion (A):** One can be a good singer while the other can be a great athlete.  
**Reason (R):** Humans possess different types of intelligence 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
- (ii) The Indian Government banned a few apps stating, “servers in the hostile nation are receiving and using the acquired data improperly.”  
Which terminology suits best for this action?  
(a) AI Ethics (b) Data Privacy  
(c) AI Bias (d) AI Access
- (iii) **Statement 1:** There are four layers in a neural network.  
**Statement 2:** The first layer of the neural network is known as the output layer.  
(a) Both Statement 1 and Statement 2 are correct

- (b) Both Statement 1 and Statement 2 are incorrect
- (c) Statement 1 is correct but Statement 2 is incorrect
- (d) Statement 2 is correct but Statement 1 is incorrect

(iv) Observe the given graph and fill in the blank:



\_\_\_\_\_ the neural network, better is the performance.

- (v) \_\_\_\_\_ is a simple file format that stores data separated by commas.
- (a) .jpg
  - (b) .doc
  - (c) .csv
  - (d) .png

**3.**

- (i) Read the examples given below—
- (i) Using ChatGPT to write an email
  - (ii) Face-unlock technology of mobile phones using camera
  - (iii) Turning off lights with IoT device
  - (iv) Hand sanitizer dispenser having sensor

Choose the options that are **not** AI

- (a) (i) and (ii)
- (b) (i) and (iii)
- (c) (iii) and (iv)
- (d) (i), (iii) and (iv)

(ii) \_\_\_\_\_ refer to the type of features that we want to collect.

(iii) Which of the following is an application of data science?

- (a) Text Summarization
- (b) Target Advertisements
- (c) Face Lock in Smartphones
- (d) Email Filters

(iv) \_\_\_\_\_ is the process of finding instances of real-world objects in images or videos.

- (a) Instance Segmentation
- (b) Object Detection
- (c) Classification
- (d) Image Segmentation

(v) Identify the given Chatbot type:

It learns from its environment and experience. It also builds on its capabilities based on the knowledge. These can collaborate with humans, working along-side them and learning from their behaviour.

**SUBJECTIVE TYPE QUESTIONS**

**4.** List two best practices for effective communication.

5. How is society helping entrepreneurs in their business?

6. Identify any two stop words which should not be removed from the given sentence and why? Get help and support whether you're shopping now or need help with a past purchase. Contact us at [abc@pwershel.com](mailto:abc@pwershel.com) or on our website [www.pwershel.com](http://www.pwershel.com)

7. Draw the confusion matrix for the following data

- the number of true positive = 100
- the number of true negative = 47
- the number of false positive = 62
- the number of false negative = 290

8. We, human beings, can read, write and understand many languages. But computers can understand only machine language. Do you think we might face challenges if we try to teach computers how to understand and interact in human languages? Explain.

9. An AI model made the following sales prediction for a new mobile phone which they have recently launched:

Confusion Matrix		Reality	
		Yes	No
Prediction	Yes	50	40
	No	12	10

- (a) Identify the total number of wrong predictions made by the model.
- (b) Calculate Precision, Recall and F1 Score.