**INT426 (Gen AI)**

**Section: CA-1 Set 8 Roll No:**

**Max Marks: 30 Duration: 40 mins**

Choose the correct answer and write in the cell given below.

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| **Q1** |  | **Q6** |  | **Q11** |  | **Q16** |  | **Q21** |  | **Q26** |  |
| **Q2** |  | **Q7** |  | **Q12** |  | **Q17** |  | **Q22** |  | **Q27** |  |
| **Q3** |  | **Q8** |  | **Q13** |  | **Q18** |  | **Q23** |  | **Q28** |  |
| **Q4** |  | **Q9** |  | **Q14** |  | **Q19** |  | **Q24** |  | **Q29** |  |
| **Q5** |  | **Q10** |  | **Q15** |  | **Q20** |  | **Q25** |  | **Q30** |  |

**1. What is the primary goal of generative AI models?**

a. Classify data.

b. Generate new data.

c. Enhance existing data.

d. Delete irrelevant data.

**2. Which type of models focus on generating new content based on learned patterns?**

a. Discriminative models

b. Supervised models

c. Generative models

d. Regression models

**3. What do LLM models primarily excel at?**

a. Image recognition

b. Natural language understanding

c. Speech synthesis

d. Reinforcement learning

**4. What is a key aspect of understanding the foundations behind generative models?**

a. Feature extraction

b. Probability distribution

c. Randomization techniques

d. Gradient descent

**5. In the context of generative models, what does "crafting and refining prompts" refer to?**

a. Adjusting model architecture.

b. Tuning hyperparameters

c. Improving input instructions.

d. Enhancing model evaluation metrics.

**6. Which hands-on exercises are essential for gaining practical experience with language models?**

a. Building neural networks

b. Implementing sorting algorithms.

c. Crafting and refining prompts

d. Solving differential equations.

**7. What is a characteristic of discriminative models?**

a. They generate new data.

b. They focus on classification.

c. They mimic human behaviour.

d. They optimize for reinforcement learning.

**8. In the context of language models, what is the significance of prompt engineering?**

a. Enhancing model training time.

b. Improving model interpretability.

c. Refining input instructions for desired outputs

d. Minimizing model complexity

**9. What is a common use case for generative models?**

a. Predicting stock prices.

b. Image classification

c. Text summarization

d. Database management

**10. Which term is associated with refining prompts to achieve specific language model outputs?**

a. Hyperparameter tuning.

b. Prompt engineering

c. Feature extraction

d. Reinforcement learning

**11. What role do probability distributions play in generative models?**

a. Define the likelihood of generating data.

b. Determine the accuracy of classification.

c. Establish the model architecture.

d. Optimize hyperparameters.

**12. Which type of learning focuses on predicting an output based on input data?**

a. Reinforcement learning

b. Unsupervised learning

c. Supervised learning

d. Semi-supervised learning

**13. What is a primary advantage of generative models in creating diverse and novel content?**

a. High interpretability

b. Robustness to noise

c. Creativity and variability

d. Low computational cost

**14. What is the primary purpose of crafting prompts for language models?**

a. Achieving memorization.

b. Enhancing interpretability.

c. Guiding model output

d. Minimizing training time

**15. In the context of generative AI, what does "LLM" stand for?**

a. Long-lasting models

b. large language models

c. Learning language mechanisms

d. Linguistic logic models