INT426 (Generative AI)

Section: CA-2   **Roll No:**

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

Instructions

1. *Each questions carries 2 mark, wrong answer will detect 0.5 marks.*
2. *Overwriting of answer will not be considered.*
3. *Choose the correct answer and write in the cell given below*

Q1		Q6		Q11	
Q2		Q7		Q12	
Q3		Q8		Q13	
Q4		Q9		Q14	
Q5		Q10		Q15	

1.What is the primary objective of employing the question refinement pattern when interacting with large language models like ChatGPT?

a) To reduce computational load on the language model

b) To automatically generate questions without user input

c) To improve the specificity and relevance of user queries

d) To enhance the diversity of responses provided by the language model

2. Why might large language models benefit from breaking down problems into smaller sub-problems?

a) It reduces the overall complexity of the problem.

b) It helps the model generate more diverse outputs.

c) It allows the model to follow familiar patterns seen in its training data.

d) It increases the computational load on the language model.

3. Scenario: You are developing a chatbot for a customer service application aimed at assisting users with troubleshooting technical issues. The chatbot needs to gather relevant information from users in a structured manner to effectively diagnose and resolve their problems. Which prompt pattern would be most suitable for designing the chatbot's prompts to collect user input?

A) The Input Pattern

B) The Fact-Check List Pattern

C) The Semantic Filter Pattern

D) The Tail Generation Pattern

4. What advantage does the flipped interaction pattern offer in scenarios where users seek assistance from large language models?

a) It enables users to dictate the sequence of actions performed by the language model.

b) It empowers users to directly generate outputs without intervention from the language model.

c) It restricts the language model's ability to adapt its responses based on user input.

d) It leverages the language model's knowledge to formulate relevant questions and guide problem-solving.

5.Which of the subsequent options is NOT among the primary hurdles in prompt engineering?

a. Data scarcity

b. Domain adaptation

c. Hallucinations

d. Computational efficiency

6. In few-shot prompting, what is the purpose of providing examples of inputs and expected outputs to the language model?

a) To demonstrate the breadth of the model's capabilities

b) To constrain the model's output possibilities

c) To teach the model to follow a specific pattern or task
d) To encourage the model to generate novel responses

7. What is a critical consideration when designing prompts for few-shot learning?

a) Providing generic prefixes without specific context

b) Ensuring a sufficient number of examples with rich detail

c) Using ambiguous descriptions to challenge the model

d) Minimizing the instructions provided to the model

8. Which of the following is NOT a typical application of template generation?

a. Summarization
b. Translation
c. Code generation
d. Graphic design

9 Scenario: You are developing a news aggregation app that curates articles from different sources. You want to implement a feature that filters out articles containing misinformation or fake news. Which prompt pattern would be most effective for designing the filtering algorithm based on semantic analysis?

A) The Scaffolded Learning Pattern
B) The Problem-Solution Pattern
C) The Semantic Filter Pattern
D) The Storytelling Pattern

10. Which of the following is NOT a typical application of prompt engineering in information retrieval systems?

a. Entity linking
b. Relevance ranking
c. Topic identification
d. Query expansion

11 What characteristic distinguishes React prompting?

a. Enabling the model to leverage external tools and data sources for task execution

b. Prompting the model to generate responses autonomously

c. Crafting prompts with intricate language to assess model comprehension

d. Offering examples without elucidating the underlying reasoning

12.In prompt engineering, what does the term "refinement" refer to?

A) Simplifying the language of the original question
B) Adding complexity to the original question
C) Enhancing the clarity and specificity of the original question
D) Removing all patterns from the original question

13.) Scenario: You are developing prompts to guide users in creating personalized resumes for job applications. Which prompt pattern would be most suitable for this scenario?

A) The Review Pattern
B) The Template Pattern
C) The Storytelling Pattern
D) The Argumentation Pattern

14) Scenario: You are tasked with designing prompts to assist users in exploring various philosophical concepts and their implications. Which prompt pattern would be most suitable for this scenario?

A) The Chain of Thought Pattern
B) The Template Pattern
C) The Problem-Solution Pattern
D) The Recipe Pattern

15) Scenario: You are developing prompts to assist users in fact-checking information found on social media platforms. Which prompt pattern would be most suitable for this scenario?

A) The Fact check list Pattern
B) The Chain of Thought Pattern
C) The Menu action plan Pattern
D) The Combining Pattern