GENERATIVE AI COURSE

Assignment: Prompt Engineering

Generative AI Course

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Item	Details
Course	Generative AI
Topic	Prompt Engineering
Instructor	Muhammad Waqas Tahir
Total Marks	20
Due Date	As announced in class
Submission Format	PDF or Word file

Student Name: _____ **Roll No:** _____ **Section:** _____

AI tool(s) used: _____

Instructions

- Attempt all tasks. Write explanations in your own words.
- For every AI task, paste your **exact prompt** and the **AI output** (text or screenshot).
- You may use any AI chatbot. Write its name at the top of your submission.
- Copied or identical submissions will be penalised.
- Submit on time in the format announced in class.

Task 1: Concept Questions (5 Marks)

Answer each question in 3 to 4 lines. Each question carries 1 mark.

- **(a)** What is the difference between a prompt and prompt engineering?
- **(b)** What is hallucination in AI? Give one example.
- **(c)** Explain few-shot prompting with a short example.
- **(d)** Why should we verify the output of AI tools?
- **(e)** Name the five parts of a good prompt.

Task 2: Improve the Prompts (6 Marks)

The following prompts are weak. Rewrite each one using the five-part framework (Role, Context, Task, Format, Constraints). Then run your improved prompt on an AI tool and paste the output. Each prompt carries 2 marks.

- **(a)** Write about Pakistan.
- **(b)** Make a study plan.
- **(c)** Explain databases.

Task 3: Technique Practice (6 Marks)

Choose any topic from your degree program and complete the following. Each part carries 2 marks.

- **(a) Few-shot:** write a prompt that includes two examples, run it and paste the output.
- **(b) Chain-of-thought:** give the AI a reasoning or maths problem and ask it to think step by step. Paste the output.
- **(c) Iterative refinement:** show your first prompt and its output, then your follow-up prompt and the improved output. Explain in 2 to 3 lines what improved.

Task 4: Reflection (3 Marks)

In 150 to 200 words, describe one limitation or risk you noticed while doing this assignment (for example a wrong fact, a made-up reference or a biased answer) and explain how you checked or corrected it.

Marking Scheme

Task	Description	Marks
Task 1	Concept questions	5
Task 2	Improving weak prompts	6
Task 3	Technique practice	6
Task 4	Reflection on limitations	3
Total		**20**

Marks are awarded for clarity of prompts, correct use of each technique, quality of your evaluation and originality of your explanations.

Submission Checklist

- Name, roll number and section written clearly.

- Name of the AI tool(s) mentioned.
- Prompts and AI outputs included for every task.
- Explanations written in your own words.
- Reflection is between 150 and 200 words.

ACADEMIC INTEGRITY

AI tools may be used for the tasks above only. Your explanations and reflection must be your own. Always check AI answers before including them in your work.