ABV- Indian Institute of Information Technology & Management, Gwalior

Operating Systems (IT207)

Minor Examination — Session 2024

Time: 1.5 Hours   **Max Marks: 25**

Note: All questions carry equal marks unless stated otherwise.

1. Define a process. Explain process states and the role of the Process Control Block (PCB).   (5 Marks)

2. Discuss the concept of CPU scheduling. Differentiate between preemptive and non-preemptive scheduling.   (5 Marks)

3. Explain context switching with an example. Why is it considered overhead?   (5 Marks)

4. What is the difference between a kernel and a shell? Give two examples of each.   (5 Marks)

5. Write short notes on: (a) Thrashing   (2.5 Marks)
   (b) Real-time operating system   (2.5 Marks)