

[width=2cm]logo.png

Atal Bihari Vajpayee-Indian Institute of Information Technology & Management, Gwalior

IT302: Compiler Design

Minor Examination (Session 2023–24)

Maximum Time: 1.5 Hours

Max Marks: 25

Note: All questions are compulsory. Justify your answers clearly.

1. Explain the phases of a compiler with a neat diagram. (5 Marks)
2. Differentiate between top-down and bottom-up parsing strategies. (5 Marks)
3. Construct a DFA for the regular expression $(a|b)^*abb$. (5 Marks)
4. Write a short note on error handling in lexical analysis. (5 Marks)
5. Explain the role of symbol table in a compiler. (5 Marks)