

B.C.A(Hons) Sem V Examination 2021

Subject-Computer application

Paper-BCA-501(System Software)

Time: 3 hours

Full marks:80

GROUP-A

Answer any six questions.

6x5=30

- 1) Explain any two addressing modes supported by 8086 microprocessor.
- 2) Explain the purpose of different segment registers present in 8086 microprocessor.
- 3) Draw the flow chart of pass-1 assembler.
- 4) Explain the role of lexical analyser.
- 5) What is S-attribute and L- attribute in syntax directed translation.
- 6) What is language processor? What are different language processor development tools?
- 7) How the translators can interact with debugger?
- 8) Discuss absolute loader.

GROUP-B

Answer any five question

5X10=50

- 1) Draw and explain the architectural diagram of 8086 microprocessor.
- 2) Discuss different code generation techniques.
- 3) What is assembler? Explain pass -2 assembler with suitable diagram.
- 4) Explain the concept of dynamic linking and dynamic loading .
- 5) What is general purpose macro processor? Write the advantage and disadvantage of general purpose macro processor. What is nested macro call?
- 6) Explain different phases of a typical compiler.
- 7) Explain shift reduce parser with example.