Roll No.

Total No. of Pages: 02
Total No. of Questions: 09

B.TECH(CSE, IT) (Sem.-4th)
SYSTEMS PROGRAMMING
Subject Code: CS-210
Paper ID: [A0462]

Time: 3 Hrs.

Max. Marks: 60

INSTRUCTIONS TO CANDIDATE:

1. Section –A is compulsory

2. Attempt any four questions Section-B

3. Attempt any two questions Section- C

SECTION-A

10x2=20

Q.1.

(a) Discuss any two important features of DOS editor.

(b) What is SYMTAB?

(c) What is parsing?

(d) What is a regular grammar?

(e) What is the function of a debugger?

(f) What is dynamic loading?

(g) What is the advantage of bootstrapped compiler?

(h) What is a system call?

(i) What is memory mapping?

(j) Define a shell.

SECTION-B

4x5=20

Q.2. Explain the machine independent features of an assembler.

Q.3. Describe the lexical analysis phase of the compiler.

Q.4. Discuss the Chomsky hierarchy of grammars.

Q.5. Explain the working of a relocating loader.

Q.6. What is the function of YACC in BSD Unix?

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SECTION-C

2x10=20

Q.7. Elaborate the process of memory management in operating systems.

Q.8. Discuss the code optimization techniques used by compilers.

Q.9. Discuss the overall working of an assembler for x85 architecture.

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