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BJ—20—2016

FACULTY OF SCIENCE

B.Sc. (C.S.) (Second Year) (Third Semester) EXAMINATION

OCTOBER/NOVEMBER, 2016

(Revised Course)

COMPUTER SCIENCE

Paper S3.1

(System Programming and Operating System–I)

(Wednesday, 23-11-2016)

Time : 2.00 p.m. to 5.00 p.m.

Time—3 Hours

Maximum Marks—80

N.B. :— All questions are compulsory.

1. Attempt the following : 20
 - (a) What is intermediate code ?
 - (b) What is memory ?
 - (c) Write down need of editor.
 - (d) Explain compiler.
2.
 - (a) Explain the difference between system programming and application programming. 8
 - (b) Explain design of assembler. 7

Or

 - (c) Explain macro definition and call. 8
 - (d) Explain advanced macro facilities. 7
3.
 - (a) Explain the phases of compiler. 8
 - (b) Explain code optimization. 7

Or

 - (c) Explain data structure of 2-pass assembler. 8
 - (d) Explain the types of statements. 7

P.T.O.

4. (a) Explain compilation of expression. 8
- (b) Explain design of macro preprocessor. 7
- Or*
- (c) Explain design of assembler. 8
- (d) Explain interpreter and p-code compiler. 7
5. Write notes on (any *three*) : 15
- (i) Loader
- (ii) Preprocessor
- (iii) Operating system
- (iv) Condition code
- (v) Features of assembly language.