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BJ—18—2016

FACULTY OF COMPUTER STUDIES

B.Sc. (C.S.) (First Year) (First Semester) EXAMINATION

OCTOBER/NOVEMBER, 2016

(Revised Course)

COMPUTER SCIENCE

Paper S1.3

(Introduction to Programming in C)

(Wednesday, 23-11-2016)

Time : 10.00 a.m. to 1.00 p.m.

Time—3 Hours

Maximum Marks—80

N.B. :— (i) All questions are compulsory.

(ii) Figures to the right indicate full marks.

(iii) Assume suitable data if necessary.

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|-----|---|----|
| 1. | Write short notes on the following : | 20 |
| (a) | Flow chart symbols | |
| (b) | Standard library functions | |
| (c) | do-while loop | |
| (d) | Recursion. | |
| 2. | (a) Explain different programming languages in detail. | 8 |
| | (b) Describe the functions of C language. | 7 |
| | <i>Or</i> | |
| | (c) Explain data types of C. | 8 |
| | (d) Describe the structure of C programme with history. | 7 |
| 3. | (a) What are looping statement ? Explain for loop with example. | 8 |
| | (b) Explain register and static storage classes. | 7 |
| | <i>Or</i> | |
| | (c) What is function ? Describe different types of function. | 8 |
| | (d) What is pointer ? Explain about pointer arithmetic. | 7 |

P.T.O.

4. (a) Write a programme to find smallest element from array. 8
- (b) Describe the concept of command line arguments. 7
- Or*
- (c) Write a program to generate n terms of Fibonnaci series. 8
- (d) Write a program for call-by-value. 7
5. Write short notes on (any *three*) : 15
- (i) Nested structures
- (ii) Union
- (iii) Strlen() and Strcut()
- (iv) Dynamic memory allocation.