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M.Sc. RNLKWC-/CS-204/22

2022

COMPUTER SCIENCE

M.Sc. Second Semester End Examination - 2022

Paper - CS-204

(CBCS)

PROGRAMMING CONCEPTS WITH C LANGUAGE

Full Marks : 50

Time : 2 hours

The figures in the right-hand margin indicate marks.

Candidates are required to give their answers in their own words as far as practicable.

Illustrate the answers wherever necessary.

Group-A

1. Answer any five questions. 5×2=10

a) Why is C known as a mother language?

b) What is the use of static variable in C?

(Turn Over)

(2)

- c) Why Register Storage Class is used?
- d) What is size-of-operator? – Explain with example.
- e) What is a NULL pointer?
- f) Can we compile a program without main () function?
- g) What is the differences between break and continue statement?
- h) What is the difference between i++ and ++i?

Group - B

2. Answer any four questions. 4×5=20

- a) Explain briefly about do-while loop with an example.
- b) What is the purpose of functions in C? Write the difference between call by value and call by reference?
2½+2½=5

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(Continued)

(3)

- c) Why pointers are used in C? What is pointer to pointer in C? 3+2=5
- d) What is dynamic memory allocation? What is the difference between calloc () and malloc ()? 2+3=5
- e) Write a short note on – (i) global variable (ii) type casting. 2½+2½=5
- f) What is recursion? What is recursive function? Explain with example. 2+3=5

Group - C

3. Answer any one question. 1×10=10

- a) What is the use of getchar () and putchar ()? Explain switch case statement with example. What is function call? What is pointer to a function? Explain with example. 2+3+2+3

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(Turn Over)

(4)

b) (i) Write a program to check whether a string is
palindrome or not.

(ii) What is the difference between static variable &
global variable? What are the advantages of
Register variable? 5+5