1062

I Year (T.D.C.) Science Examination, 2016

COMPUTER SCIENCE

(Problem Solving Through 'C' Programming)

Paper–II

Time Allowed : Three Hours

Maximum Marks : 50

PART-A (खण्ड-अ) [Marks : 10

Answer all questions (50 words each).

All questions carry equal marks.

सभी प्रश्न अनिवार्य हैं। प्रत्येक प्रश्न का उत्तर पचास शब्दों से अधिक न हो।

सभी प्रश्नों के अंक समान हैं।

PART-B (खण्ड-ब) [Marks : 25

Answer **five** questions (250 words each), selecting **one** from each Unit. All questions carry equal marks.

प्रत्येक इकाई में से **एक-एक** प्रश्न चुनते हुए, कुल पाँच प्रश्न कीजिए। प्रत्येक प्रश्न का उत्तर 250 शब्दों से अधिक न हो।

सभी प्रश्नों के अंक समान हैं।

P. T. O.

PART–C (खण्ड-स)　　　　[Marks : 15

Answer any **two** questions (300 words each).

All questions carry equal marks.

कोई **दो** प्रश्न कीजिए। प्रत्येक प्रश्न का उत्तर 300 शब्दों से अधिक न हो।

सभी प्रश्नों के अंक समान हैं।

PART–A

(खण्ड-अ)

1.　(i) What do you understand by Algorithm ?

　(ii) What is the difference between Low level and High level Language ?

　(iii) What do you understand by Runtime error and Logical error ? Give one example of each of them.

　(iv) What do you understand by Verification ?

　(v) Write down the syntax of Switch Case in C.

　(vi) Write down the syntax of do-while loop.

　(vii) What is a Dangling Pointer ?

　(viii) What is the difference between Actual and Formal Parameters ?

　(ix) What is a Self-referential structure ?

　(x) What is a Preprocessor ?

PART-B

(खण्ड-ब)

UNIT-I

(इकाई-I)

2. Explain Machine Instruction format.

3. Explain main and secondary Memory.

UNIT-II

(इकाई-II)

4. Explain the properties of Algorithm.

5. Explain different Flow chart symbols.

UNIT-III

(इकाई-III)

6. Explain the features of C language.

7. What are the benefits of using Function ? Explain with an example.

UNIT-IV

(इकाई-IV)

8. Write a recursive function that finds and returns the minimum element in an Array.

9. Write short notes on the following :

   (a) Pointer to Pointers

   (b) Arrays.

UNIT–V

(इकाई–V)

10. Explain 'stderr' and 'exit' in C.

11. Write short notes on the following :

    (a) Typedf

    (b) Union.

PART–C

(खण्ड-स)

12. Explain instruction fetch and execute cycle. Also draw a flowchart for it.

13. Write down the algorithm of creating Fibonacci series. Also draw a flow chart for it.

14. Write a C program to prompt the user to input 3 integer values and print these values in forward and reversed order, as shown : Please enter your 3 numbers : 12 45 78. Your numbers forward : 12 45 78 Your numbers reversed : 78 45 12.

15. What do you understand by function in C? Explain with examples.

16. Explain Structure with example and also give its Syntax.