

S.D.E.

M.C.A. SEM - V : WINTER - 2017

SUBJECT : ELECTIVE – III: DESIGN OF LANGUAGE PROCESSORS

Day : **Thursday**
Date : **14/12/2017**

Time : **10.00 A.M. TO 1.00 P.M.**
Max. Marks : 80

W-2017-4439

N.B.:

- 1) Attempt **ANY FIVE** questions from Section – I and **ANY TWO** questions from Section – II.
- 2) Answers to both the sections should be written in **SEPARATE** answer books.
- 3) Figures to the right indicate **FULL** marks.

SECTION – I

- Q.1** Explain the concept of Context Free Grammar. **[10]**
- Q.2** Compare different parsing methods in brief. **[10]**
- Q.3** What is Linking? Discuss in brief. **[10]**
- Q.4** Discuss the concept of Non-Structured Language in brief. **[10]**
- Q.5** Discuss Code – optimization with respect to Iterative loops. **[10]**
- Q.6** What is a Debugger and why it is required? **[10]**
- Q.7** Write short notes on **ANY TWO** of the following: **[10]**
- a) Semantic Analysis
 - b) Two-Pass Assembler
 - c) Dynamic Storage Allocation

SECTION – II

- Q.8** What is an Interpreter? Discuss its structure in detail. **[15]**
- Q.9** Explain the following types of editor in detail: **[15]**
- a) Line Editor
 - b) Screen Editor
- Q.10** Discuss the following terms with respect to an Assembler: **[08]**
- a) Symbol Table **[08]**
 - b) Op-Code Table **[07]**

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