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B. Tech. EXAMINATION, May 2016

(Sixth Semester) (B. Scheme) (Main/Re-appear) (CSE, IT) CSE-304-Resale.co.uk COMPTER DESIGNA PREVIEW PAGE Time : 3 Hours] [Maximum Marks : 75

Before answering the question-paper candidates should ensure that they have been supplied to correct and complete question-paper. No complaint, in this regard, will be entertained after the examination.

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- Explain the need of grouping of phase (b) 5 of compiler.
- Write a context free grammar for 2. (a) 5 palindrome.
 - How lexical analyzer is implemented ? (b) Construct a lexical analyzer for tokens being, for, while, wait, identifier. 10
- What is ambiguous grammar ? Explain 3. (a) 5 with example.
 - What is operator procedence grammar ? (b) Draw the procedence relation of the from Notes following grammar :

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- $S \rightarrow iCtSS'/a$
- $S' \rightarrow eS/\epsilon$
- 4. Define va to s parser for grammar :

 $C \rightarrow b$

 $E \rightarrow E + T/T$

- $T \rightarrow T^*F/F$
- $F \rightarrow (E)/id$

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- 5. Define, the term error. Explain various types of errors. Also explain, how to recover error in Operator precedence parsing ? 15
- How to construct a syntax tree ? Define (a) 6. with example. 10
 - What is a three address code, quadruple, (b) triples ? How is it implemented ? 5
- Write a short note on standard storage 7. (a) 5 allocation strategy.
 - h? Write the What is dependency (b) system dir cter chanslation for declaration a nimar. Also construct a dependency graph for the sentence id1, id2, id3. 10

Δ t are the issues in the design of the code generator ? Explain the code generation 15 algorithms.

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