**REVNATH CHOURE JR. AND SR. COLLEGE, BORUJWADA, SAONER**

**BACHELOR OF COMPUTER APPLICATION (SEMESTER – V)**

**COMPILER CONSTRUCTION**

**(Paper – II)**

**Time- 3Hours Max. Marks- 50**

Note a) All questions are compulsory

b) Draw well labeled diagram whenever necessary

Q.1 A) Explain need of compiler. 5

B) Discuss Lexical analysis in detail. 5

**OR**

C) Discuss parser in detail. 5

D) Explain code optimization in brief. 5

Q.2 A) Discuss various generation of language. 5

B) Explain data dictionary in detail. 5

**OR**

C) Discuss the concept of parameter transmission. 5

D) Explain storage management in detail. 5

Q.3 A) Discuss the role of lexical analyzer 5

B) What is regular expression? Explain with example. 5

**OR**

C) Discuss deterministic and non-deterministic automata with example. 5

D) What is Context free grammar? Explain. 5

Q.4 A) Explain shift-reducing parsing technique with example. 5

B) Discuss operator precedence parsing. 5

**OR**

C) Discuss any two techniques of source optimization 5

D) What is DAG? Write down its algorithm. 5

Q.5 A) What is the use of symbol table? 2½

B) discuss data environment. 2½

C) Check whether grammar S → aSbS / bSaS / ∈ is ambiguous or not 2½

D) What is global register allocation. 2½