

Ex/Int./M/Unit 7/30/2017

BACHELOR OF SCIENCE EXAMINATION, 2017

(2nd Year, 1st Semester)

COMPUTER SCIENCE (Subsidiary)

Unit - 7

Full Marks : 50

Time : Two Hours

The figures in the margin indicate full marks.

Answer any *five* questions.

1. What are the different phases of compiler ? Write in brief their functions. 10
2. Write the token stream of the following while statement
while $A > B$ & $A \leq 2*B-5$ do
 $A := A+B$

Also construct a parse tree of the while statement. 10
3. What is an operating system ? What are the three main purposes of an operating system ? What is 'spooling' ? Discuss with figure and functions. 10
4. Write the essential properties of the following types of operating systems.

[*Turn over*]

[2]

(i) Batch

(ii) Interactive

(iii) Time-Sharing. 10

5. Write the components of an operating systems. Also write their main functions ? 10

6. What is a process ? What are the process states ? What are the information contain in a typical process control block (PCB). Use appropriate diagram. 10

7. Discuss in brief the different disk scheduling methods. 10
