

No. of Printed Pages : 7 **BCS-011/BCS-111**

**BACHELOR OF COMPUTER
APPLICATIONS**

(BCA-OLD/NEW)

Term-End Examination

December, 2025

**BCS-011/BCS-111 : COMPUTER BASICS AND
PC SOFTWARE**

Time : 3 Hours

Maximum Marks : 100

Weightage : 75%

***Note :** Question No. 1 is compulsory and carries
40 marks. Attempt any **three** questions
from the rest.*

1. (a) (i) What is the exact number of bytes
in 1 MB ? 2
- (ii) What is an assembler ? 2

- (iii) Write down the steps to be followed to protect Microsoft Excel spreadsheet ? 2
- (iv) Write down any *two* advantages of e-Learning. 2
- (v) What will be the output of the following program fragment ? 2

a = 43

b = 19

c = 97

if a > b

print (c)

else

print (d)

- (b) List any *three* advantages of computers and describe each *one* of them. 6

- (c) Convert the decimal number 37.25 to its binary equivalent. 4
- (d) Suppose you and your friend are communicating by sending each other letters through the postal service. Is this simplex, half duplex or full duplex communication ? Justify your answer. 4
- (e) What is a Browser ? How does it work ? Also, explain the security aspects of a browser. 6
- (f) Explain, in the context of security, the meaning and importance of the following : 6
- (i) Confidentiality
 - (ii) Integrity
 - (iii) Availability

- (g) What are compilers and interpreters ?
Explain the advantages of each. 4
2. (a) Describe the components of a Uniform
Resource Locator (URL). Also, explain
the need of DNS. 8
- (b) Write the command to locate the bad
sectors and repair the errors in the disk
E : on your computer. Explain this
command with the help of an
example. 4
- (c) What is a blog ? How can you create
and publish your own blog ? List the
precautions you should take while
posting content on your blog. 8
3. (a) Draw the flowchart and write
corresponding algorithm to find the sum
of all the natural numbers from 101 to
200. 7

- (b) In cell D46 of an Excel worksheet called 'first' you have entered the formula to find the rate of return of a series of investments. How will you copy the result of this calculation to the cell L93 in another worksheet called 'target' of the same Excel workbook ? 4
- (c) What is batch processing ? List any *two* situations where it would be the better approach. 4
- (d) Your friend was working on an important document file called "important.docx" on the hard disk. While working he deleted it by mistake. He asks you what the better course of section to take now should be : 5
- Create the file from scratch again

5. (a) List the precautions one should take while using social networking sites. 6
- (b) What is a gateway in a computer network ? How does it differ from a router ? 6
- (c) What is a mouse and what is its function ? Explain the features of a mechanical, optical and cordless mouse. 8

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