

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%*

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

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

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- (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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