

Presidency University, Bengaluru
School of Law
Comprehensive Examination

I Semester 2015-2016

Computer Fundamentals

BLA109

(Closed Book)

Max Marks: 80 marks

Max Time 3hours

Weightage: 40%

08 January 2016

Instructions to Candidates:

Write legibly, briefly and summarize/highlight the main points

Part A

2 X 10=20

Answer all Questions.

1. Give two reasons why information found on the Internet may not be reliable.
2. Explain why it is important to back up data stored on a computer system.
3. Priyansh, a student of Presidency University, is deciding about a password to use when accessing websites.
Which of the following passwords would be the most secure? Give one reason why the password too have chosen would be most secure.

Password
PriyanshReddy
Priyansh1995
ReDdY123
Zxc56yh*&V

4. Describe the term protocol.
5. Write the various ways a home computer can be connected to the Internet.
6. What is the danger of a Trojan Horse?
7. Give reasons why people send phishing emails.
8. Differentiate between COUNT () and COUNTA () functions of Excel.
9. Suppose you are playing a movie on your laptop. Where is it running in the system?
10. List at least 4 functions used in spreadsheet.

Part B

5 X 8=40

Answer all Questions.

1. What do you understand by Network Security? Discuss ways of securing the network.
2. What is digital divide? Discuss, how can we avoid this disparity?
3. "CCT offers powerful means to make governance transparent and answerable to the people." Discuss.
4. Describe advantages of Open Source Software's.
5. The widespread use of Internet and Communication Technology-based communication has highlighted a range of social, political and economic issues.
How would you advice people about responsible behaviour that would help them stay safe online.
6. In recent years the India has seen an increasing use of CCTV in an expanding number of locations. Some people think this 'surveillance society' is a good thing, but others do not. Discuss the advantages and disadvantages of using CCTV.
7. Read the following e-mail and identify the kind of Cyber Crime it is intended for.

We have detected a virus on your computer. Please download and run this program to check:
SuperVirusChecker.exe

Suggest suitable measures to avoid this kind of attack.

8. Define e-commerce? Discuss, how is CCT affecting it? Give examples.

Part C

2 X10 =20

Answer any two of the following

1. Complete the equation. Show all the steps in the calculations. Perform addition on the two binary numbers.

(i) $(76)_{10} = (???)_2$

(ii) $(2c)_{16} = (???)_2$

2. Explain the major reasons behind the increasing rate of cybercrime in India. Provide suitable suggestions to check them.

Presidency University, Bengaluru

School of Law

I Semester 2015-16

Test 2

Course: Computer Fundamentals

BL A 109 (Closed Book)

Max Marks: 50

Max Time 50 Min

Weightage: 25%

23 November 2015

Instructions to Candidates:

Write legibly, briefly and summarize/highlight the main points

Part A

[5 X 2 = 10 Marks]

1. What is Clock speed?
2. How does firewall work?
3. How does a virus affect a computer system?
4. What is the function of a bus?
5. Pair the following equivalent units
10GB, 1GB, 1000MB, 10MB, 10^4 KB, 10^7 KB

Part B

[4X 5 = 20 Marks]

1. What is the relation between a flowchart and an algorithm.
Explain with suitable illustrations. Give examples for both.
2. What do you understand by software? Describe in your own words. Describe the two major categories with the help of suitable examples. Use suitable diagram
3. (a) List the advantages and disadvantages of e-learning
(b) Provide at least 2 examples (Web sites or the name of company which operates websites) for each of the following:
 - (i) Education
 - (ii) Internet Banking
 - (iii) Travel Planning
4. With the help of a block diagram, explain the functional units of a computer.
(Hint: Input Unit)

Part C

[1x 10 =10 Marks]

1. Solve the equations.

(a) $(C6)_{16} = (???)_2$

(b) $(765)_8 = (???)_2$

After the conversion, use binary arithmetic to find the sum of above two binary numbers. (6 + 4 Marks)

2. For any computer system, the process of maintenance is very important. Explain how to have preventive maintenance for a computer equipment. Additionally, explain, in case of poor maintenance what effect it has on the computer equipment and the user. (5 + 5 Marks)

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I Semester 2015-2016 Test 1 Course: **BL A 109 Computer Fundamentals**
(Closed Book)

Max Marks: 45 Max Time: 50 Min Weightage: 15 % 05 October 2015

Instructions to Candidates

1. Write legibly, briefly and summarize. Highlight main points
2. Attempt all questions serially, in order of question paper
3. Assume suitable data wherever necessary and justify the same.
4. Show all calculations step by step

Ques 1: Write short notes on the following using meaningful and complete sentences.
(5Q x 2M = 10M)

1. Computer Virus
2. Firewall
3. CAPTCHA
4. ROM
5. Cookies

Ques 2 Complete the equation. Show all the steps in the calculations. After calculating the answer, show the steps to convert it back. Verify your answers. (3Q x 5M = 15M)

1. $(286)_{10} = (???)_8$
2. $(5d2)_{16} = (???)_{10}$
3. $(0011\ 1100\ 0100)_2 = (???)_{10}$

Ques 3 Answer the following (2Q x 5M = 10M)

1. List 3 key differences between Compiler & Interpreter. Give examples of the languages which are compiled and interpreted.
2. What do you understand by De-fragmentation of Hard Drives in a system. Is it good or bad, for the system performance? Justify your answer.

Ques 4: Give one example of Phishing attack. Suggest definite measures to counter this cyber threat. (10M)