

POKHARA UNIVERSITY

Level: Bachelor
Programme: BCA
Course: E-Business

Semester: Fall

Year : 2020
Full Marks: 100
Pass Marks: 45
Time : 3hrs.

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

Attempt all the questions.

1. a) Define electronic commerce. Differentiate between traditional commerce and e-commerce. 7
b) Discuss B2B, B2C and C2B models with examples. 8
2. a) Define auction process. What are the types of auction? Explain each in detail. 7
b) What is software agent? Explain the detail overview of different agent's types. 8
3. a) Write notes on the following 4×2
 - i. Network securities and Firewall
 - ii. EDI
 - iii. Digital Signature
 - iv. Credit card vs Debit card
- b) Define purchase and procurement. Explain the sell-side and buy-side solution of procurement. 7
4. a) What is meant by E-marketing? Explain how it is playing a vital role in the success of electronic business. Explain different E-marketing segmentation using customer's behavior. 8
b) Differentiate between online marketing and traditional marketing. 7
5. a) Do you agree "e-payment system is more complicated but effective and efficient method of payment"? Classify and explain different types of new payment systems. 8
b) What are the securities challenges and the protection measures available to any electronic business? 7
6. a) What is e-CRM? Explain managing customer value orientation and life cycle. 7
b) What is knowledge management? Explain McKinsey 7s 8

framework for developing E-strategy?

7. Write short notes on **any two**:

2×5

- a) Procurement vs Purchase
- b) e-SCM
- c) Intellectual property right

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Level: Bachelor Semester: Fall Year : 2020
Programme: BCA Full Marks: 100
Course: Simulation and Modeling Pass Marks: 45
Time : 3hrs.

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

Attempt all the questions.

1. a) What is Simulation and Modeling? Explain steps of simulation using block diagram. 8
b) What is Monte Carlo Method? Explain with suitable example. 7
2. a) Explain about Single Server Queuing Model. What are the performance measures of the queues? 8
b) What is CSMP III? Explain the three general types of statements with example. 7
3. a) Draw the analog model of the Liver with following set of equations 7
$$\frac{dx_1}{dt} = -k_{12} x_1 + k_{21} x_2$$
$$\frac{dx_3}{dt} = k_{23} x_2$$
$$\frac{dx_2}{dt} = k_{12} x_1 - (k_{21} + k_{23}) x_2$$

b) Describe the simulation of telephone system of lost call system using suitable diagram. 8
4. a) What is the role of gathering statistics in discrete simulation? Explain. 7
b) What are the properties of random number? Describe any one random number algorithm to generate pseudo numbers with example. 8
5. a) Differentiate facilities and storages in detail. Draw a block diagram of a simple manufacturing shop model having more than one inspector. 8
b) What is SIMSCRIPT? Explain SIMSCRIPT program execution cycle with necessary diagrams. 7
6. a) What is Replication of Run? Explain the idea of elimination of initial bias. 8

- b) Using the additive congruential, find the period of the generator and set of random numbers for $a=5$, $c=7$, $m=64$ & seed $X_0 = 5$. 7
7. Write short notes on **any two**: 2×5
 - a) Application of Simulation
 - b) Feedback System
 - c) Estimation Methods

POKHARA UNIVERSITY

Level: Bachelor Semester: Fall Year : 2020
Programme: BCA Full Marks: 100
Course: Linux Pass Marks: 45
Time : 3hrs.

7. Write short notes on any two:

2×5

- a) ISP simulation
- b) Database server
- c) Root login Vs super login

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

Attempt all the questions.

1. a) Why is Linux operating system popular? Differentiate between open source software and freeware. 7
b) What is a shell? Explain Linux file system. 8
2. a) What is MBR and GPT? Explain the boot process in Linux. 7
b) What is Kudzu? What are the module configurations commands? Explain with example of each. 8
3. a) Write the syntax for the file permission for the file system for a given filename "file.sh" for following conditions: 8
 - i. read write execute by owner
 - ii. read by all
 - iii. Execute by anybody
 - iv. read by owner, write by group, read by others
- b) What do you mean by disk quota? Write the steps of setting user disk quotas. 7
4. a) Explain system task scheduling using crontab. How do you restore files from your backup data? Explain. 8
b) Define KSH. Write a shell script program to check a given number is prime number. 7
5. a) Explain the procedure of setting up of web server? How a web site can be hosted in Linux? 8
b) Why DHCP server is necessary? Explain about the configuration file. 7
6. a) Write the steps to start, stop and configure MYSQL server in Linux. 8
b) How can you configure DNS server in Linux system? Write down the configuration files. 7