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(20517) Roll No. ....

BCA-VI Sem.

18026

B.C.A. Examination, May 2017

Computer Network Security

(BCA-601)

(New)

Time : Three Hours] [*Maximum Marks : 75*

Note : Attempt questions from **all** sections as per instructions.

Section-A

(Very Short Answer Questions)

Note : Attempt **all** the **five** questions. Each question carries **3** marks. Very short answer is required. 3×5=15

1. How is digest created? 3

2. What is IP Sec? 3

P.T.O.

3. Describe how a virus is moved on the Internet? 3

4. Why security of web is necessary to protect data from unauthorized user? 3

5. Explain the term 'integrity'. 3

Section-B

(Short Answer Questions)

Note : Attempt any **two** questions.

6. Explain about X.509 Certificate. 7½

7. What is Internet? Why do we need network security & how can it be provided? 7½

8. What is the need of Authentication? Explain various authentication functions. 7½

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Section-C

(Long Answer Questions)

Note : Attempt any **three** questions.

9. How does PGP create a Secure Network? Also explain PGP.   15

10. Discuss different cryptographic algorithms used in S/MIME. Explain how S/MIME is better than MIME?   15

11. What is Firewall? Describe how firewall can be used to protect the Network?   15

12. Explain the SNMP Architecture in detail? 15

13. What do you understand by cryptography? List the various cryptographic techniques with suitable examples.   15

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13. Differentiate between :   5 each

  (a) Monoalphabetic and polyalphabetic cipher

  (b) Substitution and transposition technique

  (c) Block cipher and stream cipher.

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(20517)

Roll No. ....

BCA-VI Sem.

18028

B.C.A. Examination, May 2017

E-Commerce

(BCA-603)

(New)

Time : Three Hours]   *[Maximum Marks : 75*

Note : Attempt questions from **all** Sections as per instructions.

Section-A

(Very Short Answer Questions)

Note : Attempt all the **five** questions. Each question carries 3 marks. Very short answer is required not exceeding 75 words.   3×5=15

P.T.O.

1. What is the scope of e-commerce?

2. Name any six cyber crimes.

3. Explain Internet Protocols and name the most commonly used Internet Protocol in India.

4. Differentiate between 'Server' and 'Client'.

5. What is meant by Supply chains?

Section-B

(Short Answer Questions)

Note : Attempt any **two** questions out of the following three questions. Each question carries 7½ marks. Short answer is required not exceeding 200 words.

7½×2=15

6. Explain the various applications of Intranet.

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7. Explain the process of 'Just-in-time' delivery alongwith its merits & demerits.

8. What is Intellectual Property? Why should we protect it?

Section-C

(Detailed Answer Questions)

Note : Attempt any **three** questions out of the following **five** questions. Each question carries 15 marks. Answer is required in detail.   15×3=45

9. What is Encryption? Explain the process of Encryption to Decryption.

10. Explain the following with examples :

    (i)   Internet

    (ii) Intranet

    (iii) Extranet

11. What are "stored-value cards," and "e-cash"? Explain their significance in today's scenario.

12. What is meant by electronic marketing in B2B? Explain the role of software agents for B2B EC.

13. How does integration with back-end information system help in the growth of electronic commerce?

10. (a) Outline the characteristics of basic COCOMO MODEL. 7½

(b) Give detail of various design components which are used to prepare DFD of a system. 7½

11. Explain the following: 5×3=15

(1) Line of Code

(2) Function points

(3) Decision Tree

12. With a neat diagram explain the building blocks of CASE tool for software engineering. https://www.ccsustudy.com 15

13. Differentiate between the following:

(1) E-R diagram and DFD 5×3=15

(2) Dynamic modeling and Functional modeling

(3) Waterfall model and Spiral model

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(20517) Roll No. ....

BCA-VI Sem.

18027

B.C.A. Examination, May 2017

Information System Analysis Design and Implementation

(BCA-602)

(New)

Time : Three Hours]   *[Maximum Marks : 75*

Note: Attempt questions from all Sections as per instructions.

Section-A

(Very Short Answer Questions)

Note: Attempt all the **five** questions. Each question carries **3** marks. Very short answer is required not exceeding **75** words.

3×5=15

P.T.O.

1. What do you mean by system analysis and system design? 3

2. Explain the importance of software requirements analysis. 3

3. Discriminate between risk analysis and feasibility analysis. 3

4. Define the benefits of object oriented analysis over structured analysis. 3

5. Define software process with suitable example. 3

Section- B

(Short Answer Questions)

Note: Attempt **all** the **two** questions out of the following three questions. Each question carries **7½** marks. Short answer is required not exceeding 200 words.

$$7½×2=15$$

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6. Explain the key attributes of a system analyst for software development. 7½

7. Determine the advantage of using Prototype software development model instead of Waterfall model? 7½

8. Discuss the size and cost estimation methods of a software project. 7½

Section- C

(Detailed Answer Questions)

Note: Attempt **all** the **THREE** questions out of the following **five** questions. Each question carries **15** marks. Answer is required in detail. $$15×3=45$$

9. (a) Differentiate between Cohesion and Coupling. 7½

   (b) With a suitable diagram explain the working of Spiral model. 7½

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P.T.O.

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Roll No......................

B.C.A. - VI Sem.

18029

B.C.A. Examination, May 2017

Knowledge Management

(BCA-604)

(New)

Time : Three Hours]   *Maximum Marks : 75*

Note : Attempt questions from **all** sections as per instructions.

Section-A

(Very Short Answer Questions)

Note : Attempt all **five** questions. Each question carries **3** marks.   3×5=15

P.T.O.

1. Explain why there is a need of knowledge management in an organization.

2. Define knowledge as a strategic asset.

3. What is organizational knowledge?

4. What do you mean by expert system?

5. Explain decision process in business.

Section-B

(Short Answer Questions)

Note : Attempt any **two** questions. Each question carries 7.5 marks.   7.5×2=15

6. Explain how technology can be an enabler of knowledge management.

7. What is the role of data mining in data ware housing and also define the term web mining, text mining spatial data mining, sequence mining.

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8. Describe the challenges in Building KM Systems.

Section-C

(Detailed Answer Questions)

Note : Attempt any **three** questions. Each question carries 15 marks. 15×3=45

9. Explain Knowledge Management System Life Cycle.

10. Write down the issues and challenges in data mining and also application areas of data mining.

11. What is data mining? How it is differ from KDD. Give a brief account of data mining techniques.

12. Explain in detail about various KM Processes with neat diagram.

13. Explain in detail about Knowledge Management technologies.