13. Write short notes on any **three**:

(a) SNMP

(b) Transport Layer Security

(c) Active vs Passive Attacks

(d) Configuration management

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BCA-VI Sem.

18026 (CV-II)

B.C.A. Examination, June-2021

COMPUTER NETWORK SECURITY

(BCA-601)

Time : 1½ Hours]   *[Maximum Marks : 75*

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

Section-A

(Very Short Answer Questions)

Note : Attempt any **two** questions. Each question carries 7.5 marks.

$2 \times 7.5 = 15$

1. What is Kerberos?

2. Discuss the Role of the digital signatures in modern communication.

3. Explain Firewall Design principles.

4. What is the need of Authentication?

5. What is IP. See?

Section-B

(Short Answer Questions)

Note : This section contains **three** questions, attempt any **one** question. Each question carries 15 marks. 1×15=15

6. Explain the operations of secure socket layer in detail.

7. Discuss the RSA Algorithm with an example.

8. Compare secret key encryption & public key encryption. Also find which method gives the better complexity in terms of key distribution.

Section-C

(Descriptive Answer Questions)

Note : This section contains **six** questions, attempt any **two** questions. Each question carries 22.5 marks. Answer must be descriptive. 2×22.5=45

9. What is the purpose of S/MIME? Discuss the functionality of S/MIME. Also explain delta revocation.

10. What do you understand by virus? What are the various Intrusion detection approaches? Explain all.

11. What is the purpose of X·509 standards? How is an X·509 certificate revoked?

12. Define:

    (i) PGP

    (ii) Key Management

    (iii) Model for Internetwork Security

P.T.O.

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18028(CV-II)

B.C.A. Examination, June-2021

E-Commerce

(BCA-603)

Time : 1½ Hours]   [Maximum Marks : 75

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

Section - A

(Very Short Answer Questions)

Note : Attempt any **two** questions. Each question carries 7.5 marks. Very short answer is required not exceeding 75 words.   2×7.5=15

1. What do you understand by 'Biometric Identification'?

2. What do you mean by 'Electronic Markets'?

3. What is 'Multimedia Delivery'?

4. Give the names of any three B2B models, used in e-commerce.

5. What is meant by 'Supply chains'?

Section - B

(Short Answer Questions)

Note : Attempt any **one** question from this section. Each carries 15 marks.

                1×15=15

6. What do you mean by 'digital signatures' and how they are used in e-payments?

7. What are the consequences of cyber attacks? https://www.ccsustudy.com

8. What is 'Viral Marketing'? How the internet and rich media has accelerated the growth of viral marketing?

Section - C

(Long Answer Questions)

Note : Attempt any **two** questions from this section. Each carries 22.5 marks.

$$2 \times 22.5 = 45$$

9. What is Electronic Data Interchange? Discuss its benefits and applications.

10. Describe the ethical and other public policy issues relating to e-commerce.

11. What are the various security threats to e-commerce? What measures can be taken to protect it?

12. What do you understand by "Extranets"? Describe the business models of extranet applications.

13. Explain the following in brief:

    (a) A network of networks

    (b) e-cash

    (c) Push vs. Pull technology

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BCA-VI Sem.

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18027(CV-II)
B.C.A. Examination, June-2021
INFORMATION SYSTEM ANALYSIS
DESIGN AND IMPLEMENTATION
(BCA-602)

Time : 1½ Hours | |Maximum Marks : 75

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

Section - A

(Very Short Answer Type Questions)

Note : Attempt any **two** questions. Each question carries 7.5 marks. Very short answer is required not exceeding 75 words.   2×7.5=15

1. What is system analysis and design?

2. What is decision tree?

P.T.O.

3. Explain the benefits of CASE tools.

4. Differentiate between CMM and ISO.

5. What do you mean by DFD?

Section - B

(Short Answer Type Questions)

Note : Attempt any one question out of the following three questions. Each question carries 15 marks. Short answer is required not exceeding 200 words.   1×15=15

6. What do you mean by Feasibility study? Explain.

7. What do you mean by Information Engineering? Explain.

8. Explain the process of software project management.

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Section - C

(Long Answer Type Questions)

Note : Attempt any two questions out of the following five questions. Each question carries 22.5 marks. Answer is required in detail.   2×22.5=45

9. Explain the concept of waterfall model with the help of suitable diagram.

10. What is Prototyping? Why do we need such a technique?

11. Draw a diagram of the architecture of a CASE environment and explain how different tools are integrated.

12. What are the various steps in object oriented design? Explain.

13. What is structured system analysis and design? Explain the process of SSAD.

P.T.O.

D (Printed Pages 4)

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BCA - VI Sem.

18029 (CV-II)

B.C.A. Examination, June-2021

Knowledge Management

(BCA - 604)

Time : 1½ Hours] *[Maximum Marks : 75*

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

Section-A

(Very Short Answer Questions)

Note : Attempt any **two** questions. Each question carries 7.5 marks. Answer should not exceed 75 words. 2×7.5=15

1. What is knowledge? How do we capture and share knowledge?

2. What is data mart? How does it differ from data warehouse?

P.T.O.

3. Define/Explain any three terms: Information, Groupware, Data cube, Cluster

4. What is group decision making? Explain with example.

5. How is a data warehouse different from a database? How are they similar?

Section-B

(Short Answer Questions)

Note : Attempt any **one** question. Each question is 15 marks. Descriptive answers should not exceed 200 words. 1×15=15

6. Discuss the relevance of a Decision Support System in an organization.

7. Write a note on Online Analytical Processing.

8. Mention the motivation behind the evolvement of data mining. Give an example where data mining is crucial to success of a business.

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Section-C

(Detailed Answer Questions)

Note : Attempt any **two** questions. Each question is of 22.5 marks. Answer is required in detail? $2 \times 22.5 = 45$

9. Write down the objectives of designing an expert system. Give the benefits and limitations of expert systems. Discuss the significance of artificial intelligence in an expert system Development.

10. (a) Discuss organizational knowledge hierarchy.

    (b) What is Group Decision Support System? Discuss its usefulness for an organization.

11. (a) Discuss multi-dimensional data model.

    (b) Describe the steps involved in data mining when viewed as a process of knowledge discovery.

12. What do you mean by 'Data Mining'? What kind of data can be mined? Explain the architecture of a data mining system.

13. Write short note on any **two** of following:

    (i) Knowledge Acquisition, Sharing and Utilization

    (ii) Decision Support System (DSS) tools

    (iii) Business Intelligence