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**BCA SEM V**

**21-22**

**Question Papers**

Sem - 2021

Roll No:

Total no. of Questions: 05

Total No: of pages: 02

B.C.A (Semester-V) Examination, January 2021

**SOFTWARE TESTING**

Duration: 2 hours

Maximum Marks: 50

**Instructions:**

1. All questions are compulsory.
2. Figures to the right indicate full marks.

**1. Answer the following:**

**A. Define the following terms:**

[5 x 1 Marks]

- 1) Software Testing
- 2) Verification
- 3) Validation
- 4) Quality Assurance
- 5) Quality Control

**B. Match the following:**

[5 x 1 Marks]

- |                      |                        |
|----------------------|------------------------|
| (a) Unit test        | (i) Monkey Testing     |
| (b) System test      | (ii) Design            |
| (c) Validation test  | (iii) Code             |
| (d) Ad Hoc Testing   | (iv) Requirements      |
| (e) Integration test | (v) System Engineering |

**2. Answer the following:**

- a. What are the advantages of desk checking? [2 Marks]
- b. Differentiate between positive and negative testing. [3 Marks]
- c. Elaborate the top-down and bottom-up approach of integration. [5 Marks]

**3. Answer the following:**

- a. Define I<sub>gn</sub> and L<sub>gn</sub>. [2 Marks]
- b. Write a note on types of regression testing. [3 Marks]
- c. Compare functional and non-functional testing. [5 Marks]

**4. Answer the following:**

- a. Write a note on defect seeding. [2 Marks]
- b. List the Exploratory Testing Techniques. [3 Marks]
- c. Define the following terms:

a. Documentation [5x1 Mark]



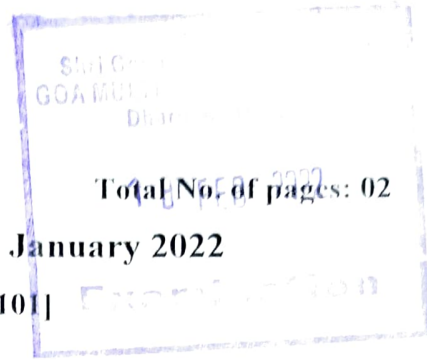
- b. **Maintenance**
- c. **SCM**
- d. **Version control**
- e. **Test automation**

**5. Answer the following:**

- a. List the quality factors for usability. **[2 Marks]**
- b. Compare Alpha and Beta Test. **[3 Marks]**
- c. Write a note on misconceptions about testing. **[5 Marks]**

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V 2022



Roll No: \_\_\_\_\_

Total No. of Questions: 06

**B.C.A. Semester End Examination, January 2022**

**CYBER SECURITY [CAD-101]**

Semester No: V

CBCS

Duration: 2Hrs.

Maximum Marks: 60

**Instructions:** 1. ALL QUESTIONS ARE COMPULSORY  
2. FIGURES TO THE RIGHT INDICATE MAXIMUM MARKS

**Q1. Answer the following:**

**A. Match the following:**

[5x1Mark=5 Marks]

- |                 |                              |
|-----------------|------------------------------|
| I. Adware       | A. malicious code            |
| II. Spyware     | B. monetary                  |
| III. Ransomware | C. stealing of data          |
| IV. Scareware   | D. threat to user            |
| V. Malware      | E. based on browsing history |

**B. State whether the following statements are True or False:[5x1Mark=5 Marks]**

- Juice jacking happens through USB ports of devices.
- A strong password cannot be cracked by Brute-Force algorithm.
- Wi-fi Eavesdropping means getting all the data over wi-fi.
- Authorization may be biometric.
- Cloud storage is safer than device storage.



**Q2. Answer the following:**

- With a suitable example elaborate what is social engineering. [2 Marks]
- Write a note on internet hacking and cracking. [3 Marks]
- Describe the types of computer security risks. [5 Marks]

**Q3. Answer the following:**

- Highlight the significance of forensic ballistics. [2 Marks]
- What is the significance of war driving in cyber crime investigations? [3 Marks]
- Enlist the types and functions of cryptography. [5 Marks]

**Q4. Answer the following:**

- List the types of malicious code. [2 Marks]
- Mention the key points of secure communication in cyber security. [3 Marks]
- Write a note on white collar cyber crimes. Give suitable examples. [5 Marks]

**Q5. Answer the following:**

- Give two points of difference between encryption and cryptography. [2 Marks]
- Mention three points of difference between restful and non-restful APIs. [3 Marks]
- Diagrammatically represent EDRM model. [5 Marks]

**Q6. Answer the following:**

a. What is android runtime?

[2 Marks]

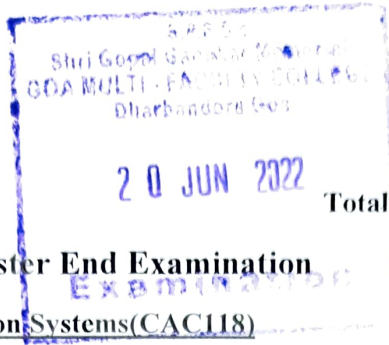
b. Elaborate upon cloud storage security.

[3 Marks]

c. Write a note on face, iris and fingerprint recognition.

[5 Marks]

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Roll No:

Total No. of Questions: 06

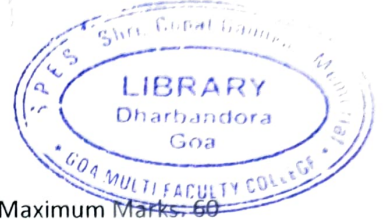
Total No. of pages: 02

**B.C.A. Semester End Examination**

**Information Systems(CAC118)**

Semester No: V

CBCS



Duration: 2 Hrs.

Maximum Marks: 60

**Instructions:** 1. All questions are compulsory.

2. Figures to the right indicate maximum marks to the question/sub-question.

**Q.1.A** Define the following: **(5X1 =05)**

- a. MIS.
- b. Knowledge.
- c. Socialization.
- d. Atomic data entity.
- e. Online analytical processing.

**Q.1.B** State whether following statements are true or false: **(5X1 = 05)**

- a. MIS should cater to the specific needs of managers in an organization's hierarchy.
- b. Each students score is a piece of data.
- c. People who have understanding can undertake useful actions because they can synthesize new knowledge.
- d. In Herbert Simon model choice means inventing, developing and analyzing different decision alternatives.
- e. Structured decisions are repetitive and routine and they involve a definite procedure for handling decisions.

**Q.2.** Answer the following:

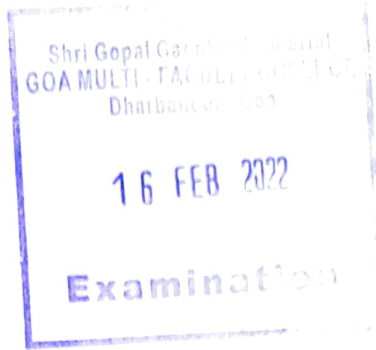
- A. What is strategic planning? 2
- B. Explain the tactical information. 3
- C. Explain the types of knowledge. 5

**Q.3.** Answer the following:

- A. Give any two characteristics of decision making. 2
- B. Explain office automation system. 3

- C. What are the advantages of installing office automation system? 5
- Q.4.** Answer the following:
- A. What is Executive Support System? 2
- B. What is Expert System? Give advantages of Expert System. 3
- C. What is enterprise software? Explain business values of enterprise systems. 5
- Q.5.** Answer the following:
- A. What is Partner relationship management? 2
- B. What is transaction processing system? 3
- C. Explain supply chain management. 5
- Q.6.** Answer the following:
- A. What is Online Real time Batch Transaction Processing? 2
- B. Explain data warehouse. 3
- C. Differentiate between database and data warehouse. 5
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Roll No:

Total No. of Questions: 06

Total No: of pages: 02

**B.C.A. Semester End Examination**

**Information Systems(CAC118)**

Semester No: V

CBCS

Duration: 2 Hrs.

Maximum Marks: 60

**Instructions:** 1. All questions are compulsory.  
2. Figures to the right indicate maximum marks to the question/sub-question.

**Q.1.A** Answer the following: (5X1 =05)

- Define MIS.
- Define System.
- Define Data Warehouse.
- Define Knowledge Work Systems.
- Define Explicit Knowledge.



**Q.1.B** Expand the Acronym of the following. (5X1 = 05)

- OLAP.
- SCM.
- CRM.
- ERP.
- ESS.

**Q.2.** Answer the following: 10

- What is data capturing function of MIS. 2
- Explain the strategic information. 3
- Explain with the help of diagram SECI model. 5

**Q.3.** Answer the following: 10

- What is the semi structured decision? 2



	B. Explain design phase of Herbert Simon model.	3
	C. What are the advantages of installing office automation system?	5
<b>Q.4.</b>	Answer the following:	10
	A. What is Expert system?	2
	B. Explain bullwhip effect in SCM.	3
	C. Explain the features and limitations of ESS.	5
<b>Q.5.</b>	Answer the following:	10
	A. What is Enterprise system?	2
	B. Explain business value of Enterprise System.	3
	C. Explain the basic analytical functions of OLAP.	5
<b>Q.6.</b>	Answer the following:	10
	A. What is Online Real time Batch Transaction Processing?	2
	B. Explain data mining.	3
	C. With a neat diagram explain the architecture of data warehouse.	5

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Roll No:

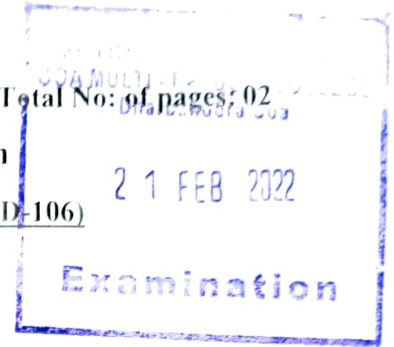
Total No. of Questions: 06

Total No. of pages: 02

**B.C.A. Semester End Examination**  
**HUMAN COMPUTER INTERACTION (CAD-106)**

Semester No: V

CBCS



Duration: 02 Hrs.

Maximum Marks: 60

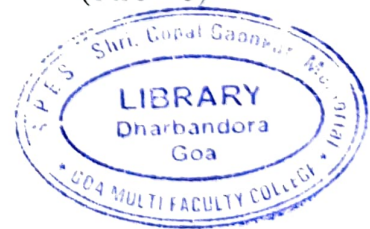
- Instructions:**
- i) Read the question paper carefully.
  - ii) Figures to the right indicate marks.
  - iii) Start each main question on a fresh page.

Q 1. A. Fill in the blanks with appropriate word(s): (1 x 5 = 5)

1. \_\_\_\_\_ is a rich picture of an imaginary person who represents the core user group.
2. \_\_\_\_\_ platforms are defined and developed by device makers for use on their devices.
3. \_\_\_\_\_ memory is used for Visual Stimuli.
4. \_\_\_\_\_ is anyone who is affected by the success or failure of the system.
5. \_\_\_\_\_ brings together the concepts from interaction design, visual design and information architecture.

Q 1. B. State whether the following statements are **True** or **False**: (1 x 5 = 5)

1. Pitch is the frequency of sound.
2. Facilitating stakeholders are the one who actually uses the system.
3. Blackberry is an example of Licensed Platform.
4. Overlays are lightweight pop ups.
5. Scenarios give a step-by-step walkthrough of user's interaction with the system.



Q 2. Answer the following:

1. Mention the difference between Deductive and Inductive Reasoning. (2)
2. Describe any three operating systems used in mobiles. (3)
3. Suggest when to use Overlays and Inlays when designing the user interface. (5)

P.T.O.

Q 3. Answer the following:

1. Mention any four Contextual Tools. (2)
2. State any three best practices of Drag and Drop. (3)
3. Explain the stages involved in CUSTOM analysis. (5)

Q 4. Answer the following:

1. Describe the parts of hypertext. (2)
2. Explain briefly the following participatory designs: (3)  
a) Brainstorming                      b) Workshops
3. Brief the health issues that can be addressed by ergonomic design of any system. (5)

Q 5. Answer the following:

1. Describe the Flash Lite application framework. (2)
2. Mention the golden rules of design. (3)
3. What is Navigation Design? What are the Levels at which user interacts with respect to navigation design? (5)

Q 6. Answer the following:

1. Differentiate between Formative and Summative Evaluation. (2)
2. Mention any three paradigms of interaction. (3)
3. What are Mobile Web Widgets? Mention any two Pros and Cons of the same. (5)

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Roll No.:

Total No. of questions: 06

Total No. of pages: 03

BCA Semester End Examination January 2022

CAC-117 : Web Technology

Semester V

CBCS

Hours: 02hrs

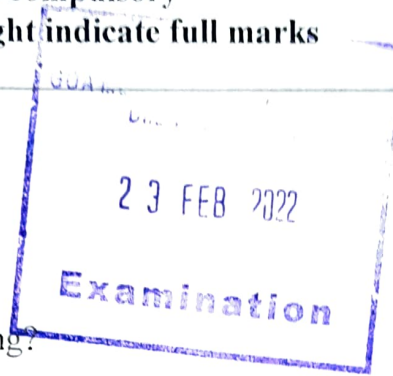
Max. Marks: 60

Instructions:

- 1) All questions are compulsory
- 2) Figures to the right indicate full marks

1. A) Answer the following:

- a. What are protocols.
- b. Define JSON.
- c. What is server-side scripting?
- d. Give a point of difference between libraries and packages.
- e. What is SSL?

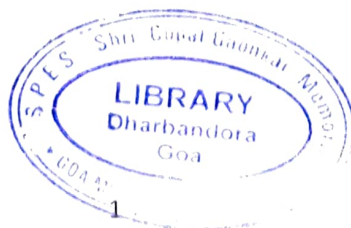


(5x1=5)

B) Fill in the blanks:

(5x1=5)

- a. \_\_\_\_\_ is the study and practice of techniques for secure communication in the presence of third parties.
- b. The \_\_\_\_\_ keyword scales the background image so that the content area is completely covered by the background image.
- c. \_\_\_\_\_ is an XML document containing a formal description of what comprises a valid XML document.
- d. The \_\_\_\_\_ property of CSS specifies whether the lines of text are laid out horizontally or vertically.
- e. \_\_\_\_\_ is an electronic “credit card” that establishes your credentials when doing transactions of web.



Roll No.:

Total No. of questions: 06

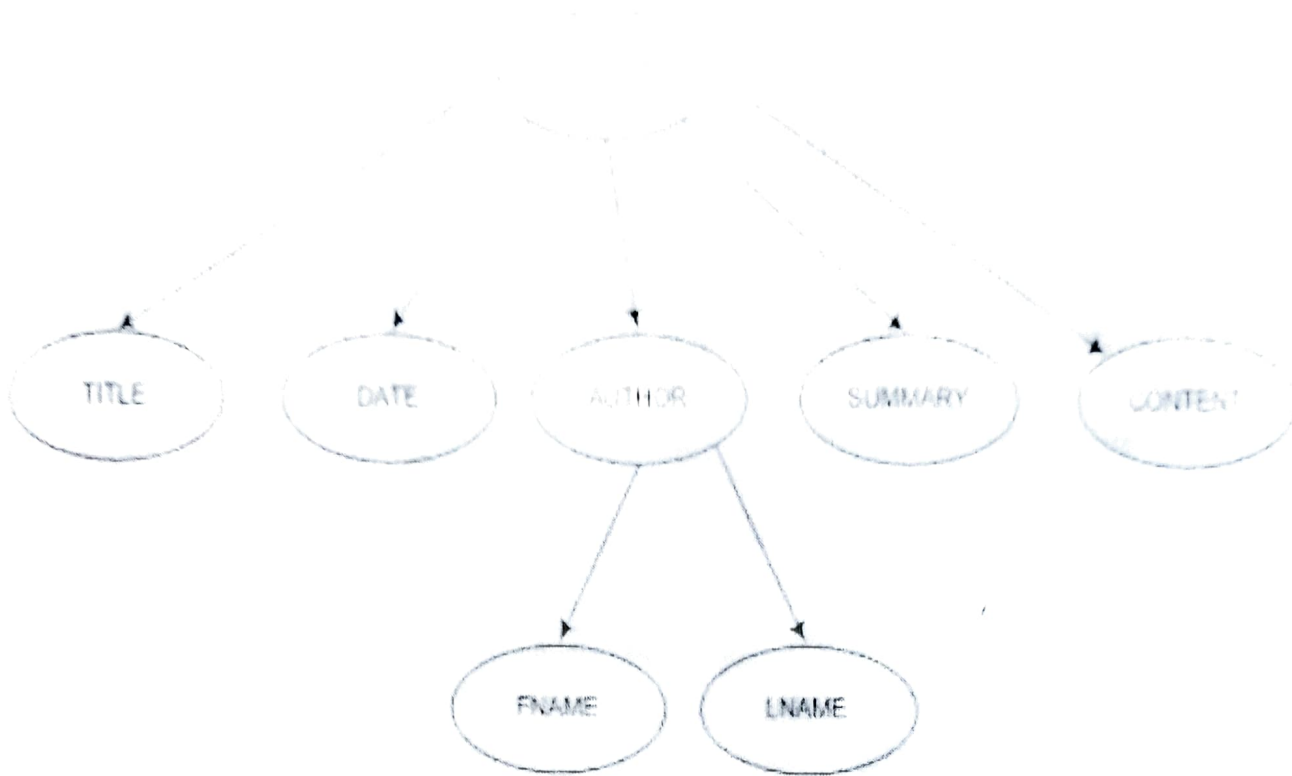
Total No. of pages: 03

- 2. Answer the following: 10**
- A) Write a short note on any two 2D transform properties in CSS. 2
  - B) Differentiate between HTTP and HTTPS. 3
  - C) With the help a code snippet, explain PHP session in detail. How will you destroy the session created? 5
- 3. Answer the following: 10**
- A) State points of difference between DOM and SAX parsers. 2
  - B) Briefly explain form handling in PHP. 3
  - C) State and explain in detail the dialog boxes used in JavaScript. 5
- 4. Answer the following: 10**
- D) State any 2 points of difference between include() and require(). 2
  - E) List and explain in brief the different types of errors in JavaScript. 3
  - F) With the help of an example explain digital signature in detail. 5
- 5. Answer the following: 10**
- A) State any 4 characteristics of PHP. 2
  - B) List the 3 rules to be followed while naming a JavaScript variable. With an example show how variables are declared in Javascript. 3
  - C) Explain in detail the MVC architecture. 5
- 6. Answer the following: 10**
- D) List any 4 applications of JavaScript. 2
  - E) Write a short note on any two types of operators in PHP. 3
  - F) State any two points of difference between XML and HTML. Derive XML schema for the below given tree structure.

Roll No.:

Total No. of questions: 06

Total No. of pages: 03



5

-----ALL THE BEST-----



Total No. of Printed Pages:01

T.Y. B.Com. (CBCS) (Semester - V)  
EXAMINATION NOVEMBER 2022  
Industrial Management

[Duration : 2 Hours]

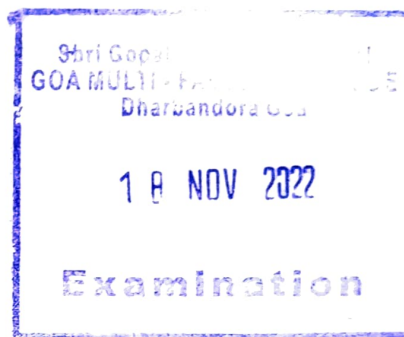
[Total Marks :80]

Instructions:

- i. All questions are **compulsory**; however, **internal choice** is available.
- ii. Answer sub-Questions in Questions No. **1** and Question No. **2** in **not** more than **100** words **each**.
- iii. Answer question No. **3** to Question No. **6** in **not** more than **400** words **each**.
- iv. Figures to the **right** indicate marks assigned to the questions.

Q.1 Answer the following in brief (any four) :

- a) What is Industrial Management?
- b) Explain any four principles of Scientific Management.
- c) Explain any four problems of Plant Layout.
- d) What is Industrial Productivity?
- e) Enumerate the Psychological Hazards.
- f) Explain any four suggestions for improving productivity.



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Q.2 Write short notes on any four of the following:

- a) Concept of TQM
- b) Steps in Failure Mode and Effect Analysis
- c) Concept of ISO-9000
- d) Effect of Industrial accidents on workers
- e) Role of National Institute of Occupational Health
- f) Mechanical Causes of accidents

16

Q.3 A) Explain the factors determining Factory location.

OR

X) Explain the various types of Plant Layout.

12

12

Q.4 A) Examine the factors affecting Work environment.

OR

X) Explain the significance of higher Industrial productivity.

12

12

Q.5 A) Explain the Principles of TQM.

OR

X) What are Quality Circles? Explain their features.

12

12

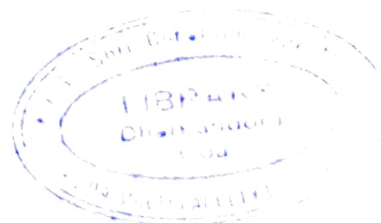
Q.6 A) Explain the objectives of Safety Management.

OR

X) Examine the effects of Industrial Accidents.

12

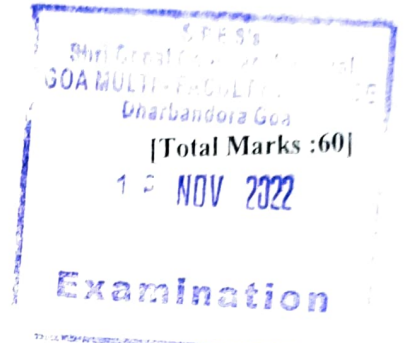
12





Total No. of Printed Pages:02

**B.C.A. (Semester-V)  
EXAMINATION NOVEMBER 2022  
Information Systems**



[Duration : 2 Hours]

Instructions:

1. All questions are compulsory.
2. Figures to the right indicate full marks.

- Q.1 A. Name the following: (5x1=05)
- i. The process of selecting a course of action from several alternatives to accomplish a desired objective.
  - ii. A system that employs human knowledge captured in a computer to solve problems that ordinarily require human expertise.
  - iii. An enterprise-wide information system designed to coordinate all the resources, information and activities needed to complete business processes.
  - iv. The system that capture, collect data from all over the organization and distribute customer information to various systems across the organization.
  - v. A powerful visualization online analytical process system that allows users to analyze database information from multiple database systems at one time.
- B. State whether the following statements are **True** or **False** : (5x1=05)
- i. The operational information type is used at the top level of management within an organization.
  - ii. Executive support system provides data for low level management.
  - iii. The move towards globalization for SCM is decreasing complexity in the supply chain.
  - iv. CRM systems focus specifically on suppliers.
  - v. Data mining is the process of extracting useful information from a data warehouse.
- Q.2 A. State any two functions of management in an organization. 02  
B. Explain the SECI model. 03  
C. Explain the knowledge management value chain. 05
- Q.3 A. Describe any two characteristics of management information system. 02  
B. Give three points of differences between data and information. 03  
C. Explain the activities of SCM system. 05
- Q.4 A. What do you mean by application processing? 02  
B. List the steps involved while performing Pareto analysis in decision making. 03  
C. Explain in brief the role of system engineering in information system processing. 05
- Q.5 A. State two advantages of executive support system. 02  
B. Discuss in brief any one application of office automation system. 03  
C. Explain the components of expert system with the help of a neat diagram. 05

*Library*

*18/11/22*

**Paper / Subject Code: UCAC118 / Information System**

**UCAC-118**

- Q.6
- A. List any four basic analytical operations of OLAP.
  - B. Explain the risks that organizations would take when implementing ERP systems.
  - C. Explain the architecture of data warehouse with the help of a neat diagram.

**02**

**03**

**05**