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Question Papers



MRD – 09

B.C.A. (Semester – V) Examination, October 2018
WEB TECHNOLOGY

Duration : 2 Hours

Max. Marks : 50

Instructions : i) **All questions are compulsory.**
ii) **Figures to the right indicate full marks.**

1. A) Define the following :

(5×1=5)

- i) Secure Socket Layer.
- ii) Bookmarking webpages.
- iii) Permalink.
- iv) Domain parking.
- v) RSS Feed.

B) Give an example of each of the following :

(5×1=5)

- i) Crawler based search engines.
- ii) Technical blogging website.
- iii) Web safe image file format.
- iv) Web mail application.
- v) Open Source Web Browser.



2. A) State the goals of the world wide web.

2

B) What are the different types of users on the web ?

3

C) Explain the box model in CSS.

5

P.T.O.

MRD – 09



- 3. A) State the purposes of client side scripting. 2
- B) Explain the properties and methods in DOM. 3
- C) Explain the exception handling mechanism in Java Script. 5

- 4. A) What are filters in PHP ? 2
- B) Compare and contrast get and post method of form handling. 3
- C) Explain the concept of sessions in PHP with suitable examples. 5

- 5. A) State the principles of web security. 2
- B) Explain the Public Key Cryptographic algorithms. 3
- C) Explain the concept of document type definition and schemas in XML. 5



B.C.A. (Semester – V) Examination, October 2018
SOFTWARE TESTING

Duration : 2 Hours

Max. Marks : 50

- Instructions :** 1) *All questions are compulsory.*
2) *Figures to the right indicate full marks.*

1. A) Fill in the blanks : (5×1=5)
- i) Testing the interaction between modules and other external systems is called _____ testing.
 - ii) “Are we building the product right” is a question that concerns _____ activities.
 - iii) Developing software to test software is called _____
 - iv) The time taken from request to first response is called _____ time.
 - v) Testing which looks at the specification and does not require examining code is called _____ testing.
- B) Answer the following in **one** or **two** sentences. (5×1=5)
- i) Define verification.
 - ii) What do you mean by source control ?
 - iii) What is smoke testing ?
 - iv) List any two black box testing techniques.
 - v) What is meant by adaptive maintenance ?
2. Answer the following :
- A) What is Enabling testing in $I_{18}n$? 2
 - B) State any three principles of software testing. 3
 - C) What is beta testing ? List the activities involved in Beta Program. 5





3. Answer the following :
- A) List any two qualities of good documentation. 2
 - B) What is Boundary Value Analysis ? Explain with an example. 3
 - C) Describe any five keyboard accessibility features. 5
4. Answer the following :
- A) What is Adhoc testing ? 2
 - B) "Testing is only destructive" . Comment on this misconception with reasons. 3
 - C) Explain Top Down integration with the help of a neat diagram. 5
5. Answer the following :
- A) Give any two advantages of Static testing done by humans. 2
 - B) Define any three categories of software maintenance. 3
 - C) Discuss any five risks encountered in a software testing project. 5
-



MRD – 03

B.C.A. (Semester – V) Examination, October 2018
NON-COMPUTER SCIENCE (NCS) (Elective – I)
Human Resource Management

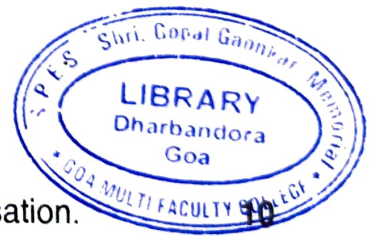
Duration : 2 Hours

Max. Marks : 50

Instructions : 1) *All questions are **compulsory**, however **internal** choice is provided from Q.2 to Q.5.*

2) *Figures to the **right** indicate **full** marks.*

1. Answer in brief : (5×2=10)
- a) Job Description.
 - b) Induction Training.
 - c) MBO.
 - d) Pareto 80/20.
 - e) Counselling.
2. Answer the following : (2×5=10)
- A) Discuss the scope on Human Resource Planning in an organisation.
- B) Explain in detail the disadvantage of Internal Sources of Recruitment.
- OR
- X) Elaborate in detail the objectives of Human Resource Planning in an organisation.
- Y) Explain any five external sources of Recruitment in detail.
3. Answer the following :
- A) Explain the process of selection of employees in an organisation.
- OR
- X) State and explain the importance of interviews in the selection process. 5
- Y) Bring out the advantages of Job analysis in an organisation. 5



P.T.O.

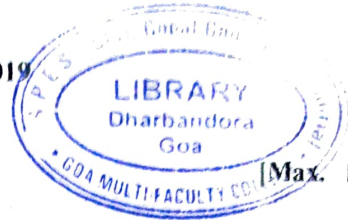
MRD – 01



3. Answer the following :
- a) What is ERP II ? List any two best practices of ERP II. 2
 - b) What are the challenges faced by BPR ? 3
 - c) Explain data warehouse architecture and its components. 5
4. Answer the following :
- a) What are the competitive reasons for implementing ERP system ? 2
 - b) Discuss any three ERP implementation phases. 3
 - c) Explain any five objectives of ERP implementation. 5
5. Answer the following :
- a) Explain recruitment management subsystem under HR module. 2
 - b) Discuss advantages of EAI. 3
 - c) Write short note on sales and distribution module. 5

Total No. of Printed Pages: 1

BCA (Semester-V)
EXAMINATION October 2019
Software Testing



[Max. Marks:50]

[Duration : Two Hours]

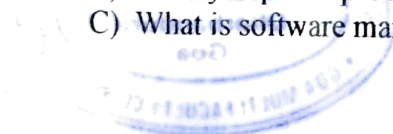
Instructions:

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

- Q.1 A) Answer the following in not more than 30 words. 5X1=5
- i) What do you mean by fault?
 - ii) What is full form of API?
 - iii) What do you mean by pair testing?
 - iv) What do you mean by cook time?
 - v) What is be- bugging?
- B) Fill in the blanks 5X1=5
- i) White box testing is also known as ----- testing.
 - ii) ----- form the fundamental building blocks for OO systems.
 - iii) A defect repository captures all the relevant details -----reported for a of product.
 - iv) The only phase of testing which tests both functional and non- functional aspect of the system is -----
 - v) Verifying the product usability for differently – able users is called ----- testing
- Q.2 Answer the following 10
- A) What is the need to perform Software Testing? 2
 - B) State any 3 fundamental principles of software Testing? 3
 - C) Mention any 2 challenges of white box testing. Explain the role of requirement traceability matrix (RTM) 5
- Q.3 Answer the following 10
- A) Mention any 4 types of non- functional system testing? 2
 - B) Mention the various steps used in performing regression testing. 3
 - C) Explain how to perform unit testing in object Oriented systems in about 200 words 5
- Q.4 Answer the following 10
- A) What do you mean by round the clock development/testing team model? 2
 - B) 'Testing is only destructive'. Give your comment on this misconception with reasons. 3
 - C) Briefly explain how risk management is carried out in software testing in about 200 words? 5

Paper / Subject Code: BCA501 / Software Testing

BCA50

- Q.5 Answer the following. 10
- A) What do you mean by baseline in software Configuration Management? 2
 - B) Briefly explain 'process documentation' in about 100 words. 3
 - C) What is software maintenance and why it is needed? 5
- 

R.P.



RR – 01

**B.C.A. (Semester – V) Examination, April/May 2019
WEB TECHNOLOGY**

Duration : 2 Hours

Max. Marks : 50

Instructions : i) **All questions are compulsory.**
ii) **Figures to the right indicate full marks.**

- 1. A) Define the following : (5×1=5)
 - i) URL Encoding
 - ii) Cross-site scripting
 - iii) CSS Box Model
 - iv) isNaN()
 - v) Web bot.

- B) Give a point of difference between **each** of the following : (5×1=5)
 - i) HTTP and HTTPs protocols
 - ii) Web 2.0 and Web 3.0
 - iii) Classes and Identifiers in CSS
 - iv) Variables and super Globals in PHP
 - v) Secret key and Public key Cryptography.

- 2. A) What are the different types of hyperlinks in a mark-up ? 2
- B) State the advantages and limitations of the different methods of using CSS with HTML. 3
- C) Explain HTML tags to format data using tables and lists. 5

- 3. A) What is DHTML ? What are the components of DHTML ? 2
 - B) Explain the different dialog boxes in JavaScript. 3
 - C) Explain the timing methods of the window object in JavaScript. 5

- 4. A) What are the different output statements in PHP ? 2
 - B) Explain the error handling mechanism in PHP. 3
 - C) Explain the MySQL database connectivity functions in PHP. 5

- 5. A) What is a well formed XML document ? 2
 - B) What are Vocabularies in XML ? Explain any XML Vocabulary. 3
 - C) What is a digital signature ? Explain the One way Hashing algorithm. 5



Total No. of Printed Pages:2

BCA Semester - V
EXAMINATION OCTOBER 2019
Computer Science Elective-I : Human Computer Interaction

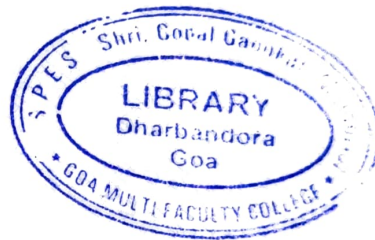
[Duration : Two Hours]

[Max. Marks: 50]

Instructions:-

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

- Q.1 A) Define the following terms in about 40 words 5X1=5
- i) Mental Model
 - ii) Icon
 - iii) Menu
 - iv) Cognitive Style
 - v) Track – pad
- B) Fill in the Blanks 5X1=5
- i) In an individual face – to – face ----- one- on –one visit is held with the user which may be structured or open ended.
 - ii) ----- menu is the portrayal of menu items or objects in a graphic or pictorial form.
 - iii) A characteristic of Graphical user interface where user moves the mouse pointer to the relevant element and the action is signaled is termed as ----- interaction.
 - iv) A perceptual characteristics where our eyes and mind see objects as belonging together if they are near each other in space has been termed as -----
 - v) A concept where one’s body of knowledge about one thing is used to understand something else is called as -----
- Q.2 Answer the following 10
- A) List any two psychological responses to poor design. 2
 - B) Mention any three indirect methods of information collection technique. 3
 - C) Explain any five advantages of Graphical systems. 5
- Q.3 Answer the following 10
- A) Draw an example of a form to show functional groupings using borders 2
 - B) Give three differences between Printed page and Webpage. 3
 - C) Describe any five factors to ‘Focus and Emphasis’ while designing a screen 5
- Q.4 Answer the following 10
- A) Mention any two features of a Drop down list box. 2
 - B) Define Status message, informational message and Warning message 3
 - C) What is Secondary window? Explain Property sheets and Property inspectors using an example 5



- Q.5 Answer the following 10
- A) Write one advantage and disadvantage of using virtual keyboard 2
 - B) Describe any three indirect pointing devices used. 3
 - C) Explain any two Novel devices. 5



RP

RR - 02

B.C.A. (Semester – V) Examination, April/May 2019
COMPUTER SCIENCE
Elective – I : ERP Systems

Duration : 2 Hours

Max. Marks : 50

Instructions : 1) **All questions are compulsory.**
2) **Figures to the right indicate full marks.**

1. A) Define the following : (5×1=5)
- a) Enterprise
 - b) Hybrid OLAP (HOLAP)
 - c) Package evaluation
 - d) General ledger
 - e) Extended ERP.
- B) Answer the following : (5×1=5)
- a) State two drawbacks of MIS (Management Information System).
 - b) What is shop floor control in manufacturing module ?
 - c) List any two factors influencing business intelligence.
 - d) What is user help desk ?
 - e) Define ERP II.
2. Answer the following.
- a) Discuss any two best practices of ERP II.
 - b) What are the reasons for growth of ERP system ? 3
 - c) Explain integrated data model. Draw diagram if necessary. 5
3. Answer the following :
- a) What are the uses of EAI ? 2
 - b) Explain any three tasks solved by data mining. 3
 - c) What is data warehouse ? What are the characteristics of data in a data warehouse ? 5



P.T.O.

RR – 02



4. Answer the following :
- a) What are the obstacles for implementing ERP system ? 2
 - b) What does post implementation review helps in learning from ERP implementation ? 3
 - c) Explain any five phases of ERP implementation life cycle. 5
5. Answer the following :
- a) Explain shipping subsystem under sales and distribution module. 2
 - b) Discuss any three EAI implementation pitfalls. 3
 - c) Write short note on materials management module. 5
-

Total No. of Printed Pages: 1

BCA Semester - V
EXAMINATION OCTOBER 2019
Non Computer Science Elective - I : Human Resource Management

[Duration : Two Hours]

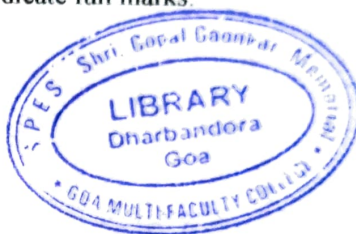
[Max. Marks: 50]

Instructions:-

- i. All questions are compulsory.
- ii. Draw diagrams wherever applicable.
- iii. All figures to the right indicate full marks.

Q.1 A. Define each of the following:

- i. HR Policy
- ii. Recruitment
- iii. Job Enlargement
- iv. Job Rotation
- v. Employee Selection



(5x1=05)

B. State whether each of the following statements are TRUE or FALSE:

- i. Employee welfare is one of the responsibility of the HR manager.
- ii. The Management by Objectives system involves both management and the employees.
- iii. Counselling is required only for operational level employees.
- iv. Recalling is a process of reengaging an employee who has proceeded on long leave for solving an urgent problem.
- v. Ratio Trend analysis is a method used for employee performance appraisal.

(5x1=05)

Q.2 A. What is human resource planning? Explain the process of human resource planning. (10)

X. State the importance of interview in the human resource selection. What are the different type of interviews? (10)

Q.3 A. Explain the different types of methods used for training managers. (10)

X. Compare and contrast traditional and modern methods of performance appraisal. (10)

Q.4 A. What is time management? Explain the Techniques of Time Management. (10)

X. Explain the Pareto's 80/20 Principle with examples. (10)

Q.5 A. What is career? Explain the career development life cycle. (10)

X. What is counseling? Explain the steps in counseling? (10)

Total No. of Printed Pages:1

BCA Semester - V
EXAMINATION OCTOBER 2019
Computer Science Elective - I : ERP Systems

[Duration : Two Hours]

[Max. Marks : 50]

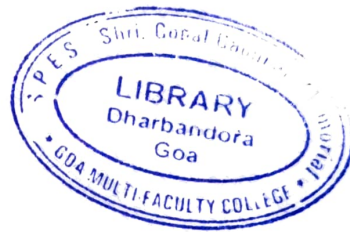
Instructions:

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

Q.1)A. **Define the following terms.**

- i. ERP II
- ii. General ledger
- iii. End user training
- iv. Data warehouse
- v. MRP (Material Requirement Planning)

(5X1=5)



B. **Answer the following:**

- i. What is Gap analysis in ERP systems implementation?
- ii. List any two phases of BPR.
- iii. Define stabilization period.
- iv. What is pre-purchasing activity in materials management?
- v. List any two pitfalls of EAI.

(5X1=5)

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

- A) Explain any two tasks solved by data mining.
- B) What are the reasons for growth of ERP systems? Mention any three.
- C) Draw integrated data model and explain its importance.

(10)

(2)

(3)

(5)

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

- A) What is Message Oriented Middleware (MOM)?
- B) Explain three benefits of using business intelligence.
- C) Explain OLAP and its different styles.

(10)

(2)

(3)

(5)

Q.4) **Answer the following:**

- A) How user help desk is different from in-house help desk?
- B) What are the advantages of EAI?
- C) Explain any five phases of ERP implementation lifecycle.

(10)

(2)

(3)

(5)

Q.5) **Answer the following:**

- A) What is recruitment management sub-system of Human Resource module?
- B) How does shipping sub-system help in sales and distribution?
- C) Briefly explain any five sub-systems of material management module.

(10)

(2)

(3)

(5)

Total No. of Printed Pages:2

BCA Semester - V
EXAMINATION OCTOBER 2019
Web Technology

[Duration : Two Hours]

[Max. Marks: 50]

Instructions:

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

1. A) Answer the following in 40 to 60 words. (5x1=5)

- i) State any one advantage of using web services.
- ii) What is meant by Document Type Definition (DTD)?
- iii) Mention the use of Cascaded Style Sheets in a web page.
- iv) What are Proxy Servers?
- v) Mention any one feature of Persistent Cookie.

1. B) Fill in the blanks (5x1=5)

- i) _____ is a lightweight XML format designed for sharing headlines and other web content.
- ii) ASCII stands for _____.
- iii) _____ is a software distribution model in which a third party provider hosts application and makes them available to customers over the Internet.
- iv) _____ is the term devised to differentiate the post-dotcom bubble World Wide Web with its emphasis on inter operability, social networking and user-generated content for end users.
- v) _____ is the standard security technology for establishing an encrypted link between a web server and a browser so that the data passed remain private and integral.

2. Answer the following: 10

- A) How XML is different from HTML? 2
- B) Briefly explain any three disadvantages of using Apache Web Server. 3
- C) Explain the form 'target' attribute values in HTML. 5

3. Answer the following: 10

- A) How does the use of Strict Mode affect JavaScript programs? 2
- B) Briefly explain the types of nodes in DOM Tree. 3
- C) Explain the CSS 'Class' and 'Id' selectors using snippet code. 5



4. Answer the following: 10

- A) State the role of XML in web development. 2
- B) Compare and contrast between include_once() and require_once(). 3
- C) Explain the various dialog boxes in JavaScript with the help of snippet code. 5

5. **Answer the following:** 10
- A) Mention any two ways of retrieving data from the result set of MySQL using PHP. 2
 - B) Mention any three approaches in Hardening Web Application Security. 3
 - C) Write a short note on the cryptography key types to secure and protect data during communication. 5

Total No. of Printed Pages: 1

BCA (Semester-V)
EXAMINATION October 2019
Software Testing



[Duration : Two Hours]

[Max. Marks:50]

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 - B) 'Testing is only destructive'. Give your comment on this misconception with reasons. 3
 - C) Briefly explain how risk management is carried out in software testing in about 200 words? 5

Paper / Subject Code: BCA501 / Software Testing

BCA501

Q.5

Answer the following.

- A) What do you mean by baseline in software Configuration Management?
- B) Briefly explain 'process documentation' in about 100 words.
- C) What is software maintenance and why it is needed?

10

2

3

5