BCA SEM V
16-17
Question Papers

RD – 01

B.C.A. (Semester – V) Examination, October 2016
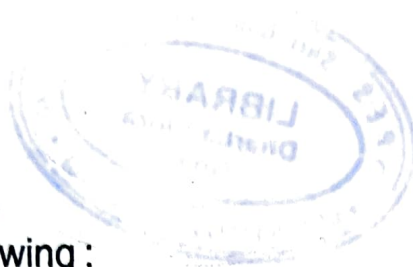**SOFTWARE TESTING**

Duration : 2 Hours

Total Marks : 50

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

1. A) Fill in the blanks :
   a) The capability of system in handling multiple transactions is determined by _____ (5×1=5)
   b) _____ attempts defect prevention by concentrating on the process of producing the product.
   c) _____ is series of steps executed on a product, using pre-defined set of input data, expected to produce pre-defined set of output.
   d) _____ maintenance is done to adapt to the changing user requirements.
   e) _____ integration is also called as Sandwich Integration.

   B) Answer the following in **one** or **two** sentences :
   a) Differentiate between verification and validation. (5×1=5)
   b) Define Productivity Metrics.
   c) What is Regression Testing ?
   d) Give 1 goal of Software Documentation.
   e) What is Software Configuration Management ?

2. Answer the following :   10
   A) What is the need to perform Software Testing ?   2
   B) Explain Change Control procedure in SCM.   3
   C) Explain Black Box Testing. List out the different Black Box Testing Techniques.   5

3. Answer the following :   10
   A) What is Smoke Test ?   2
   B) Briefly explain how Risk Management is handled in Software Testing ?   3
   C) Write a short note on Misconceptions of Software Testing.   5

P.T.O.

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4. Answer the following : 10

A) "Heavy emphasis on reusability of code makes system testing even more important for Object Oriented Systems." Justify. 2

B) State any 3 aspects one has to follow in Test Planning. 3

C) Explain any 5 features of Object Oriented Systems. 5

5. Answer the following : 10

A) What is Corrective Maintenance ? 2

B) Briefly explain program documentation. 3

C) Explain the factors governing Performance Testing. 5

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RD – 03

B.C.A. (Semester – V) Examination, October 2016
COMPUTER SCIENCE (Elective – I)
(IT Project Management)

Duration : 2 Hours

Max. Marks : 50

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

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

1. Answer the following :   (2×5=10)

   A) What is Integrated Change Control ?

   B) State any 2 skills a project manager should possess.

   C) What is project closing ?

   D) Find PERT weighted average formula.

   Where optimistic time = 10, most likely time = 30 and pessimistic time = 34.

   E) State the formula for Earned Value (EV).

2. Answer the following :   (10)

   A) Define a Project. State 2 attributes of Project.   2

   B) What is the need for organizational commitment to IT ?   3

   C) Explain project time management processes.   5

3. Answer the following :   (10)

   A) What is project cost ?   2

   B) Explain in brief the methods for selecting projects.   3

   C) Explain the project management maturity model.   5

P.T.O.

4. Answer the following : (10)

   A) Define Project Human Resource Management. 2

   B) What are the suggestions for improving project communications ? 3

   C) Write a short note on developing a communications infrastructure. 5

5. Answer the following : (10)

   A) What is risk utility ? 2

   B) What is procurement planning ? 3

   C) Write a short note on risk response planning. 5

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RD – 09

B.C.A. (Semester – V) Examination, October 2016
NON COMPUTER SCIENCE
Elective – I : Entrepreneurship Development

Duration : 2 Hours

Max. Marks : 50

Instructions : 1) Q. **1** is **compulsory**.
2) From Q. **2** to Q. **5** answer either (**A** and **B**) or (**X** and **Y**).
3) Figures to the **right** indicate **full** marks.

1. Answer the following :   (5×2=10)

   A) Define the term 'Intrapreneur'.

   B) What is Market Research ?

   C) Define a Project Report.

   D) What do you mean by the term 'New Knowledge' under Purposeful Innovation ?

   E) What is Financial Management ?

2. Answer the following :   (2×5=10)

   A) Explain any five functions of an entrepreneur.

   B) What is SWOT Analysis ?

                                  OR

   X) Discuss the various stages in entrepreneurship development.

   Y) What is Environmental Scanning ? Explain its importance.

3. Answer the following :   (2×5=10)

   A) State and explain the importance of market research.

   B) Discuss any five contents of a Project Report.

                                  OR

   X) Explain the sources of market research.

   Y) The Project report is of great significance to an entrepreneur. Discuss.

4. Answer the following : (2×5=10)

A) What is Marketing Mix ? Explain the 4P's of marketing.

B) Explain 'Incongruities' as a source of Purposeful innovation.

OR

X) Distinguish between recruitment and selection.

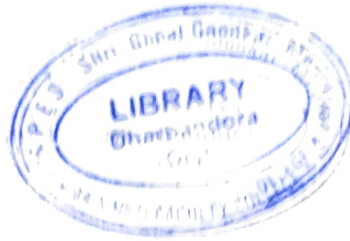Y) Explain 'The Unexpected' as a source of Purposeful innovation.

5. Answer the following : (2×5=10)

A) Explain any five types of entrepreneurs.

B) What are the factors to be taken into consideration by an entrepreneur before selecting a project ?

OR

X) Distinguish between Financial Leverage and Operating Leverage.

Y) Explain 'Change in Demography' as a source of Purposeful innovation.

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RD – 02

B.C.A. (Semester – V) Examination, October 2016
WEB TECHNOLOGY

Duration : 2 Hours

Max. Marks : 50

Instructions : 1) **All** questions are **compulsory**.
2) Figures to the **right** indicate **full** marks.
3) Draw diagrams **wherever** necessary.

1. A) Define the following : (1×5=5)
   a) W3C.
   b) Regular Expression.
   c) SaaS.
   d) Digital Signature.
   e) XML-Schema.

   B) Indicate whether **each** of the following statement is **True** or **False** : (1×5=5)
   a) An element declared as deprecated by the W3C is obsolete.
   b) Frames must be used in a disciplined way for page layout in order to offset their potential drawbacks.
   c) It is good programming practice to write one function to perform your entire program.
   d) Web 2.0 is a term used to describe major technological shifts or improvements in the Web.
   e) Including HTML tags inside a <script> element will generally cause an error.

2. Answer the following :
   a) What is a document type declaration ? 2
   •b) Explain with an example how we can use tables to structure forms. 3
   c) Briefly explain the four types of runtime errors in PHP. 5

3. Answer the following :
   a) List any two features of DHTML. 2
   b) Briefly explain the Get and Post methods in form submitting. 3
   c) Differentiate between Class selector and ID selector using snippet code. 5

P.T.O.

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4. Answer the following :   2

   a) Why are XML documents well-formed ?

   b) Briefly explain the three various ways the PHP code can be embedded in
      an HTML page.   3

   c) Explain Event Handling in JavaScript with an example.   5

5. Answer the following :

   a) List any two main functions of DOM.   2

   b) What is the role of XML in a web application ?   3

   c) Write a short note on :   5
      a) Digital Certificates.
      b) Secure Socket Layer.

JD – 04

B.C.A. (Semester – V) Examination, October 2017
NON-COMPUTER SCIENCE (NCS) (Elective – I)
Human Resource Management

Duration : 2 Hours

Total Marks : 50

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

(5×2=10)

1. Define the following :

   a) Job Enlargement.

   b) Induction Training.

   c) BARS.

   d) Pareto's 80/20 principle.

   e) Counselling.

(2×5=10)

2. Answer the following :

   A) Explain the need of Human Resource Planning in an organisation.

   B) Explain in detail the advantage of Internal Sources of Recruitment.

                          OR

   X) Elaborate in detail any five sources of Recruitment that an organisation
      follows.

   Y) What do you understand by Human Resource Planning ? Elaborate on its
      objectives.

(2×5=10)

3. Answer the following :

   A) Explain the selection procedure followed by a business organisation.

   B) Explain in detail the components of Job analysis.

                          OR

                                                              P.T.O.

X) Define selection and briefly explain any three selection test.

Y) "Good interviewing is an art as well as a science". Explain.

4. Answer the following : (2×5=10)

A) What is Performance Appraisal ? Explain any three Traditional methods.

B) What is Training ? Explain the different types of training programmes.

OR

X) Explain any five criteria's for effective business presentation.

Y) Explain any four on-the job methods of training managers.

5. Answer the following : (2×5=10)

A) Explain the various stages of an individual's career.

B) Define Career Planning. Explain briefly the need for Career Planning.

OR

X) Define Counselling. Briefly explain any four objectives of Counselling.

Y) Explain the various steps in Counselling.

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JD – 06

B.C.A. (Semester – V) Examination, October 2017
COMPUTER SCIENCE
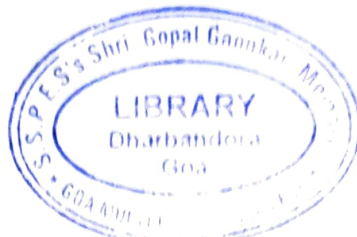**Elective – I : ERP Systems**

Duration : 2 Hours

Total 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) ERP
   b) Archives
   c) Going live
   d) Shop floor control
   e) Extended ERP.

   B) Answer the following : (5×1=5)
   a) State any two characteristics of information.
   b) What is Vendor evaluation in materials management module ?
   c) List any two technologies used in Data mining.
   d) What is package evaluation in ERP implementation process ?
   e) Define ERP II.

2. Answer the following :
   a) What are the advantages of EAI ? 2
   b) Why ERP system is preferred over traditional system ? 3
   c) Explain any five common ERP myths. 5

3. Answer the following :
   a) Explain any two best practices of ERP II. 2
   b) Explain key features of OLAP. 3
   c) Discuss the challenges faced by BPR. 5

4. Answer the following :
   a) State the reasons why ERP implementation fails. 2
   b) Discuss any three objectives of ERP implementation. 3
   c) Explain the post implementation activities after going live. 5

5. Answer the following :
   a) Explain time management sub system under HR module. 2
   b) What are the limitations of using ERP system ? Define EAI. 3
   c) Write short note on sales and distribution module of ERP system. 5

4. Answer the following :

   A) What is SCM ? What is the need for SCM ?

   B) Why are test metrics required in software testing ?

   C) State any 5 misconceptions about software testing.

2

3

5

5. A) Explain perfective maintenance in detail.

   B) List any 3 qualities of good documentation.

   C) Explain the different tools used in testing Object Oriented System.

2

3

5

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JD – 02

B.C.A. (Semester – V) Examination, October 2017
WEB TECHNOLOGY

Duration : 2 Hours   Max. Marks : 50

Instructions : 1) **All** questions are **compulsory**.
2) Figures to the **right** indicate **full** marks.
3) Draw diagrams **wherever** necessary.

1. A) Define the following :   (1×5)
   a) Cookie
   b) RIA
   c) Regular Expression
   d) MIME
   e) Web Browser.

   B) State whether **each** of the following statements is **true** or **false**.   (1×5)

   a) By an intranet we mean a network connecting all computers of an organization and using the internet protocol.

   b) A web page is located using a Universal Record Locator.

   c) A search engine is a program to search for web pages for information using specified search terms.

   d) HTML is a programming language.

   e) In order to interpret XML documents one should have a document type definition which defines the tags.

2. Answer the following :
   a) What is a pseudo-class in CSS ?   2
   b) Explain the usage of the Meta-tags in a web page.   3
   c) Briefly explain tag style method of linking CSS to KTML document with snippet code.   5

3. Answer the following :
   a) State any two points of difference between button v/s hyperlink.   2
   b) What are the different objects used in JavaScripts ?   3
   c) Discuss how to manage exception handling in JavaScript.   5

P.T.O.

4. Answer the following :

   a) What are the types of nodes in DOM Tree ?   2

   b) Briefly explain any 3 features of XML.   3

   c) Compare and contrast between require() and include() in PHP.   5

5. Answer the following :

   a) Differentiate between explode() and split() in PHP.   2

   b) Discuss the Client Server Paradigm.   3

   c) Write short note on the following :   5

      i) CAPTCHA

      ii) Principles of web security.

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