



B.C.A. (Semester – V) Examination, April/May 2019
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 full marks.**
3) **Draw diagrams wherever necessary.**

1. Answer the following briefly : (2×5=10)
 - a) List the topics included in the agenda of a kick-off meeting.
 - b) Explain any two project attributes in brief.
 - c) Define Net Present Value (NPV).
 - d) What is critical chain scheduling ?
 - e) Define Schedule Performance Index (SPI).
 2. Answer the following :
 - a) Briefly explain triple constraint. 2
 - b) Discuss any three best practices for avoiding scope problems. 3
 - c) Explain project time management processes in detail. 5
 3. Answer the following :
 - a) Define configuration management. 2
 - b) What is cost of quality ? Explain any three cost categories related to quality ? 3
 - c) Define project portfolio management and explain its five levels. 5
 4. Answer the following :
 - a) If 10 people are involved in a project, calculate the total number of communication channels through which they can communicate. 2
 - b) Explain any 3 guidelines to run effective meetings. 3
 - c) Define power. Explain the types of power. 5
 5. Answer the following :
 - a) Define risk register. 2
 - b) What is procurement planning ? Briefly explain its tools and techniques. 3
 - c) Explain the categories of risk in detail. 5
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B.C.A. (Semester – V) Examination, April/May 2019
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 : (5×1=5)

- i) The testing metrics used to find team capability is called _____ metrics.
- ii) Development of software to test software is called _____
- iii) Modification of software after deliver to improve performance is called _____ maintenance.
- iv) Testing the interaction between software modules and with other systems externally is called _____ testing.
- v) Testing done to ensure basic functionality continues to work is called _____ testing.

B) Answer the following in **one** or **two** sentences : (5×1=5)

- i) What is meant by software source control ?
- ii) What is enabling testing in $I_{18}n$?
- iii) State the use of drivers in Integration testing.
- iv) Give one reason why regression testing is crucial in object oriented systems.
- v) What is software testing ?

2. Answer the following :

- A) What is scalability testing ? 2
- B) List any three qualities of good documentation. 3
- C) Describe round the clock development testing model. 5



3. Answer the following :
- A) What is White Box testing ? 2
 - B) List any three screen accessibility features. 3
 - C) Discuss any five risks in a software testing project. 5
4. Answer the following :
- A) State two benefits of test matrix in software testing. 2
 - B) Explain defect seeding. 3
 - C) Explain in detail the Change Control Procedure in SCM. 5
5. Answer the following :
- A) Give any two advantages of static testing done by humans. 2
 - B) With the help of an example, explain Equivalence Class Partitioning. 3
 - C) "Testing is not technically challenging". Comment on this misconception with valid reasons. 5
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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
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