



24621

B.C.A. VI Semester Degree Examination, September/October 2023
COMPUTER APPLICATIONS
Cloud Computing
(Non-NEP)

Time : 3 Hours

Max. Marks : 80

- Instructions :** 1) The question paper has **two** Parts.
2) Part – I consists of **10 compulsory** questions of **2 marks each**.
3) Part – II consists of **7** questions out of which **5** questions have to be answered, **each** question carries **12** marks. **Each** question may have sub questions.

PART – I

I. Answer **all** the following.

(10×2=20)

- 1) Define hybrid cloud.
- 2) What is Hadoop ?
- 3) Differentiate public and private cloud.
- 4) Define Platform as a Service (PAAS).
- 5) What are the main services offered by AWS ?
- 6) What is multi-tenancy ?
- 7) Define virtual machine.
- 8) Define utility computing.
- 9) What is VM migration ?
- 10) Why is hypervisor important ? What is its role ?

PART – II

II. Answer **any five** of the following.

(5×12=60)

- 1) a) Explain layered cloud computing architecture in detail. **6**
b) Explain pros and cons of virtualization. **6**
- 2) a) Explain SaaS in cloud computing with neat diagram. **6**
b) What are the security aspects provided with cloud computing ? **6**

P.T.O.



- 3) a) Define cloud computing. Write the characteristics of cloud computing. 6
 b) Explain thin clients in detail. 6
- 4) a) Explain cloud services provided by windows azure. 6
 b) List and explain challenges in cloud computing. 6
- 5) a) Explain Google App engine. 6
 b) What is IaaS ? Explain its referencing implementation with neat diagram. 6
- 6) a) Explain the classification of virtualization at different levels. 6
 b) What are the pros and cons of cloud computing in comparison of distributed and grid computing ? 6
- 7) Write a note on :
 a) Google cloud platform. 6
 b) AWS. 6



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B.C.A. VI Semester Degree Examination, Sept./Oct. 2023

COMPUTER APPLICATION

Software Engineering

Time : 3 Hours

Max. Marks : 80

Instructions : 1) Part – A : All questions are compulsory.

2) Part – B : Answer any five full questions.

PART – A

(10×2=20)

1. Define software process.
2. What is data models ?
3. What is project planning ?
4. What is software reliability ?
5. What is software engineering ?
6. Define modular decomposition.
7. Define reusability.
8. Define software prototyping.
9. What is requirement specification ?
10. What is software validation ?

PART – B

(5×12=60)

- I. 1) Explain software products and process model.
2) Explain Boehm's spiral model. **(6+6=12)**
- II. 1) Explain software design strategies.
2) Explain software development with reuse. **(6+6=12)**

P.T.O.

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- III. 1) Explain prototypes techniques.
2) Explain reliability growth modeling. (6+6=12)
- IV. 1) Explain structural decomposition.
2) Explain Data Flow Design. (6+6=12)
- V. 1) Explain class room software development.
2) Explain Black Box testing. (6+6=12)
- VI. 1) Explain product quality metrics.
2) Explain software cost estimation. (6+6=12)
- VII. 1) Explain statistical testing.
2) Explain fault avoidance and tolerance. (6+6=12)



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- 6) What is multi-tenancy ?
- 7) Define virtual machine.
- 8) Define utility computing.
- 9) What is VM migration ?
- 10) Why is hypervisor important ? What is its role ?

PART – II

II. Answer **any five** of the following.

(5×12=60)

- 1) a) Explain layered cloud computing architecture in detail. **6**
b) Explain pros and cons of virtualization. **6**
- 2) a) Explain SaaS in cloud computing with neat diagram. **6**
b) What are the security aspects provided with cloud computing ? **6**

P.T.O.



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- 7) Write a note on :
 a) Google cloud platform. 6
 b) AWS. 6



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B.C.A. VI Semester Degree Examination, September/October 2023
COMPUTER APPLICATION
Web Designing and Programming

Time : 3 Hours

Max. Marks : 80

Instructions : 1) Part – I : Answer **all 10** questions.
2) Part – II : Answer **any 5 full** questions.

PART – I

Answer **all ten** questions. **Each** carries **2** marks. **(10×2=20)**

- a. What are Web Servers ?
- b. What is Web browser ? Name them.
- c. Write Basic Syntax of HTML ?
- d. What is the use of and <div> tag ?
- e. Define function in Javascript.
- f. General syntax and characteristics of Javascript.
- g. What is Event and Event handler ?
- h. Write DOM tree structure.
- i. Write a steps to run a PHP script.
- j. What is COOKIES in PHP ?

PART – II

Answer **any five full** questions. **Each** carries **12** marks. **(5×12=60)**

1. a) Explain the benefits of a Web Application.
b) Explain Neat diagram Web-Client Server Architecture.

P.T.O.



2. a) Write the standard XHTML document structure with example.
b) What is CSS ? Explain the different levels of CSS with examples.
3. a) Explain Screen output keyboard Input functions in Javascript.
b) Develop and demonstrate XHTML file that include Javascript Fibonacci No.
4. a) Write a program to implement Mouse event.
b) Explain Events, attributes and tags with proper example.
5. a) Explain features of PHP.
b) Write a PHP program to store page views count in SESSION to increment the count on each refresh and to show the count on webpages.
6. a) Explain alert(), Confirm() and Prompt() Method of Window object.
b) Difference between Web application and Website.
7. a) What is Form ? What are the major attributes of Form ?
b) Explain any 5 XHTML Tags with examples.
8. Write a short note (**any two**).
 - a) DOM 2 Event Model.
 - b) XML
 - c) Types of Scripting Languages.



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B.C.A. VI Semester Degree Examination, September - 2021

COMPUTER APPLICATION

Software Engineering

(New Schemes)

Paper : 18BCA6.3

Time : 3 Hours

Maximum Marks : 80

Instructions to Candidates :

1. Part - I consists of **10** compulsory questions of 2 marks each.
2. Part - II consists of 7 questions out of which **5** question have to be answered.

PART - I

(10×2=20)

1. Define software process.
2. Define system procurement.
3. What is project planning?
4. Define requirement engineering?
5. What is software reliability?
6. What is fault tolerance?
7. Define data models.
8. What is system decommissioning?
9. Define software prototyping.
10. Define validation.

PART - II

Answer any **five** full questions.

(5×12=60)

- I. 1. Explain waterfall model with neat diagram.
2. Explain view point - oriented analysis. **(6+6=12)**
- II. 1. Discuss the terms understandability and adaptability
2. Explain requirement engineering process. **(6+6=12)**

[P.T.O.]



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24623(New)

- III.** 1. Explain incremental development.
2. Explain design quality. (6+6=12)
- IV.** 1. Explain menu - based system in user interface.
2. Explain software development for reuse. (6+6=12)
- V.** 1. Write a note on cohesion and coupling.
2. Explain clean room software development. (6+6=12)
- IV.** 1. Explain COCOMO model.
2. Explain testing process. (6+6=12)
- VII.** 1. Write a note on client - server model.
2. Explain Top - down testing and Bottom - Up testing. (6+6=12)
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24623(New)

B.C.A. VI Semester Degree Examination, September - 2021

COMPUTER APPLICATION

Software Engineering

(New Schemes)

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3. What is project planning?
4. Define requirement engineering?
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6. What is fault tolerance?
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9. Define software prototyping.
10. Define validation.

PART - II

Answer any **five** full questions.

(5×12=60)

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2. Explain view point - oriented analysis.

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