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11/04/2016

Auditing ✓

1110494 TO 1110500

B.SC(IT) Sem.Vth (CBSGS) 75/25 APRIL -2016
 TIME-3.00 PM. TO 5.30 PM.

Sl No	DATE	SUBJECT	SEAT NO.	NO.OF STUDENT ALLOWETED	BLOCK. NO.
1	11/04/2016	Network Security ✓	1047021 to 1047118	28	202
2	12/04/2016	ASP.NET With C# ✓	1047021 to 1047119	40	202
3	13/04/2016	Softwear Testing ✓	1047021 to 1047120	65	202 to 203
4	16/04/2016	Advance Java ✓	1047021 to 1047114	31	202
5	18/04/2016	Linux Administration ✓	1047027 to 1047114	29	202

H35 26862
 1x50 26865
 1x25 26868 ok
 1x40 26870
 1x40 26874

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Alumni Reentry

3. to 5.30 pm

11/4/2016

NETWORK SECURITY

QP Code : 26862

(2½ hours)

Total Marks: 75

- N. B.: (1) All questions are compulsory.
(2) Make suitable assumptions wherever necessary and state the assumptions made.
(3) Answers to the same question must be written together.
(4) Numbers to the right indicate marks.
(5) Draw neat labeled diagrams wherever necessary.
(6) Use of Non-programmable calculators is allowed.

1. **Attempt any two of the following:** 10
 - a. What is the concept of Pharming? Explain.
 - b. What are the technical types of attacks? How is it varied on the practical side? Explain.
 - c. Illustrate and explain the concept of key exchange in Diffie-Hellman Algorithm.
 - d. List and explain the general types of attacks.
2. **Attempt any two of the following:** 10
 - a. What is the concept of IV in CFB mode? Explain.
 - b. What are the different modes of RC5 that can be used to improve its performance?
 - c. How does the one time initialization process works in AES? Explain.
 - d. Explain the sub-key generation in the Blowfish algorithm.
3. **Attempt any two of the following:** 10
 - a. How is the combination of symmetric and asymmetric key together more efficient in security solution? Explain with the concept of key wrapping.
 - b. What is HMAC? What are the disadvantages of HMAC? Explain.
 - c. What is the concept of message digest? Explain LRC.
 - d. Write a short note on RSA.
4. **Attempt any two of the following:** 10
 - a. Discuss the Offline mode of certification checking of digital certificate using CRL mechanism.
 - b. Explain the standard PKCS #5 -PBE.
 - c. Write a short note on Station to Station protocol.
 - d. What are the types of digital certificates? Explain.
5. **Attempt any two of the following:** 10
 - a. List and brief all the participants belonging to SET process.
 - b. What is Firewall? Explain Packet filter firewall.
 - c. Why is offline e-money dangerous? Discuss double spending problem.
 - d. Explain note on S/MIME protocol in detail.
6. **Attempt any two of the following:** 10
 - a. What is SSO approach? What are its approaches?
 - b. How does something derived from the password work? Explain with the help of Message digest of the message.
 - c. What is the use of Smart Cards? What is the problem with the smart cards if the large data needs to be processed? Explain.
 - d. Write a short note on biometric authentication.
7. **Attempt any three of the following:** 15
 - a. Discuss the concept of man-in-middle attack regarding Diffie-Hellman key exchange Algorithm.
 - b. What is the principle of IDEA algorithm? Explain.
 - c. Explain the algorithms: ECC, Knapsack
 - d. What is the role of CA and RA? Discuss the mechanisms for checking the user's proof of the possessions (POP) of the private key by RA.
 - e. Write a short note on PGP.
 - f. Write a short note on Authentication Token.

BSc IT

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3 to 5-30

ASP.NET WITH C #

(2½ hours)

QP Code : 26865

Total Marks: 75

- N. B.: (1) All questions are compulsory.
(2) Make suitable assumptions wherever necessary and state the assumptions made.
(3) Answers to the same question must be written together.
(4) Numbers to the right indicate marks.
(5) Draw neat labeled diagrams wherever necessary.
(6) Use of Non-programmable calculators is allowed.

1. Attempt any two of the following: 10
a Describe the roles of CLR in .NET Framework.
b Explain briefly try, catch and throw statements in C#.
c What is Microsoft Intermediate Language (MSIL)? Why it important?
d Explain the concept of boxing and unboxing.
2. Attempt any two of the following: 10
a Explain ASP.NET Page Life Cycle.
b What is Garbage Collector? How does it work?
c Draw and explain .NET Framework 4.0.
d What is namespace? Explain System namespace.
3. Attempt any two of the following: 10
a What is web.config file? Explain its structure.
b Explain RadioButtonList control with its properties and methods.
c What is the place of Page directive? Explain its attributes.
d Explain any five Common Properties of the server controls.
4. Attempt any two of the following: 10
a What is master page? Explain the relationship between master page and content page.
b Explain Response.Redirect(). How does it differ from Server.Transfer()?
c What is RangeValidator control? Explain with example.
d What is a sitemap file? What is the role of SiteMapDataSource control?
5. Attempt any two of the following: 10
a Describe DataReader object of ADO.NET with example.
b What is Data Binding? Which are 2 types of data binding?
c Differentiate between DataSet and DataReader.
d Explain windows authentication in ASP.NET.
6. Attempt any two of the following: 10
a Explain the need of the Timer control in AJAX.
b What is the use of Document Ready function? Explain.
c What is jQuery? How to Use jQuery?
d What is LINQ? Write the basic syntax of a LINQ query.
7. Attempt any three of the following: 15
a Explain HiddenField control with example.
b What is CSS in ASP.NET? Compare CSS with HTML.
c Explain framework base class library.
d Explain CauseValidation and AutoPostBack properties.
e Write short note on jQuery event functions.
f Explain ASP.NET provider model with its diagram.

Bsc

IT

- Sem - V -

Software Test

13/4/2016

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Software Testing

QP Code : 26868

(2½ hours)

Total Marks: 75

- N. B.: (1) All questions are **compulsory**.
(2) Make **suitable assumptions** wherever necessary and **state the assumptions** made.
(3) Answers to the **same question** must be **written together**.
(4) Numbers to the **right** indicate **marks**.
(5) Draw **neat labeled diagrams** wherever **necessary**.
(6) Use of **Non-programmable** calculators is **allowed**.

1. **Attempt any two of the following:** 10
a. Define the term defect and explain how it leads to failure.
b. How software testing helps to measure the quality?
c. "Exhaustive testing is impossible". Discuss.
d. Write a note on Test analysis and Design.
2. **Answer any two of the following:** 10
a. Define and explain the term Validation Testing.
b. How testing is carried out in incremental development models?
c. Compare Alpha Testing and Beta Testing.
d. Write a note on impact analysis with reference to Maintenance Testing
3. **Answer any two of the following:** 10
a. What are the success factors of formal review?
b. Explain the goals of technical review.
c. Explain static analysis as a form of testing.
d. Compare Static Testing and Dynamic Testing.
4. **Answer any two of the following:** 10
a. Explain equivalence partitioning as a test design technique.
b. Write a note on experienced based testing technique.
c. What is the significance of statement coverage and decision coverage testing techniques?
d. State and explain the factors considered for choosing Test techniques.
5. **Answer any two of the following:** 10
a. Who is a test manager / leader? State their role.
b. What do you mean by Risked based testing?
c. Discuss the factors considered for entry / exit criteria of test planning.
d. State and explain any five components of a Test Plan as per IEEE 829 template.
6. **Answer any two of the following:** 10
a. Describe the features of Test Management Tools.
b. Explain the terms Stub and Driver with reference to test harness.
c. Write a note on Performance testing tool.
d. What are the risk factors associated with using the testing tools?
7. **Attempt any three of the following:** 15
a. Define and compare the terms Test Policy and Test Strategy.
b. Write a note on Regression Testing.
c. Explain Inspection as a formal review technique.
d. Write a note on State Transition Testing technique with suitable example.
e. Write a note on incident management.
f. What are the potential benefits of using tools to support testing?

