

D 45

Reg. No. :
Q.P. Code : 107 DSCA 091

(For the candidates admitted from 2007 onwards)

B.C.A. DEGREE EXAMINATION, DECEMBER 2010.

Third Year

Part III — Computer Applications

JAVA PROGRAMMING

Time : Three hours

Maximum : 100 marks

Answer any FIVE questions.

(5 × 20 = 100)

1. (a) How the structure of C and C++ differ? (5)
(b) Explain the advantages of Java. (15)
2. (a) Explain the operations of Java with examples. (10)
(b) Write a java program to create a class for refreshing a city with attributes and methods. Also write the main function. (10)
3. Explain how multiple inheritance is implemented in java with an example. (20)

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4. (a) Discuss the life cycle of an applet. (8)
(b) Explain the exception handling feature of Java with example. (12)
5. Explain the following with examples : (20)
(a) File Input Stream
(b) Buffered Input Stream
(c) Pushback Input Stream
(d) Random Access.
6. (a) Explain the access modifiers with examples. (12)
(b) What are called wrapper lanes? Why are they called so? Explain. (8)
7. (a) Bring out the difference between 'throw' and 'throws'. (5)
(b) Explain the use of 'synchronized' keyword with example. (15)
8. Explain :
(a) JVM (b) Continue statement
(c) Lang Package (d) Final class.

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Third Year

Part III — Computer Applications

DATABASE CONCEPTS AND VISUAL PROGRAMMING

Time : Three hours

Maximum : 100 marks

Answer any FIVE questions.

(5 × 20 = 100)

1. Describe the structure of relational data model with an example.
2. Explain the significance of first three normal forms with example.
3. Explain the syntax of various looping structure in Visual Basic.
4. Discuss the structure and usages of logical expressions in Visual Basic with examples.

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5. Explain the significance of Timer control in visual basic application environment.
6. How to assign keyboard keys to access the menu items? Explain with example.
7. Explain the ways and means to create one-dimensional integer array and how an array is passed to procedures? Explain with example.
8. Describe the concept of sequential data files to Visual Basic.

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Third Year

Part III — Computer Applications

E – COMMERCE

Time : Three hours

Maximum : 100 marks

Answer any FIVE questions.

All questions carry equal marks.

1. Narrate the role of E-commerce drivers. Also write about E-commerce myths. (20)
2. Describe the procedure of integrating E-commerce. (20)
3. Give a detailed description on mobile commerce. Also explain how wireless technology is helpful in M-commerce. (20)
4. (a) Write about wireless application protocol.(10)
(b) Discuss on B2B commerce. Also write its advantages. (10)

5. Summarize the B2B communication tool, "EDI" with its types and advantages. (20)

6. (a) Write about the designing procedure for providing security. (10)

(b) Describe the client and server security threats in detail. (10)

7. Explain the security protection and recovery methodologies. (20)

8. (a) Narrate the requirements for Internet based payments. (10)

(b) Elucidate the general guidelines to E-payment with E-payment types. (10)

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D 44

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(For the candidates admitted from 2007 onwards)

B.C.A./B.Sc. DEGREE EXAMINATION,
DECEMBER 2010.

Third Year

Part III — Computer Applications/Computer Science
COMPUTER NETWORKS

Time : Three hours

Maximum : 100 marks

Answer any FIVE questions.

1. With a neat sketch, explain the functions of various layers in OSI reference model.
2. Explain the various guided transmission media.
3. Discuss in detail on communication satellites.
4. Explain with examples; the error detection and correction codes.
5. Describe in detail on sliding window protocols.

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6. Explain with examples, any three routing algorithms in computer networks.
7. Discuss in detail on Cryptography.
8. Explain in detail on Electronic Mail.