

E-0377

Sub. Code

1BIT4C1

B.Sc. DEGREE EXAMINATION, APRIL 2019

Fourth Semester

Information technology

JAVA PROGRAMMING

(CBCS – 2011 onwards)

Time : 3 Hours

Maximum : 75 Marks

Part A

(10 × 2 = 20)

Answer **all** questions.

1. List out the different types of data types available in Java.
2. What are the differences between a break statement and a continue statement?
3. How many times may an object's finalize() method be invoked by the garbage collector?
4. What is the difference between a static and a non-static inner class?
5. Define Inheritance.
6. Specify the uses of packages in Java.
7. Write note on AWT.
8. What are the methods used to get and set the text label using Button object?

9. What do you mean by exception?
10. What is the default priority of a thread?

Part B

(5 × 5 = 25)

Answer **all** questions, choosing either (a) or (b).

11. (a) List and explain the library methods used in Java.

Or

- (b) Write a Java program to implement 'switch' statement.

12. (a) Explain the concepts of Method Overriding in Java.

Or

- (b) Write a note on finalize() method.

13. (a) Explain about packages in Java with a sample program.

Or

- (b) Narrate the structure of an Interface.

14. (a) What are the component and container classes in Java AWT? Explain any two of them.

Or

- (b) Write a Java applet program to draw a human face.

15. (a) Give a brief account on Multithreading.

Or

- (b) Discuss any two built in exception methods in Java.

Part C

(3 × 10 = 30)

Answer any **three** questions.

16. Describe the features of JAVA in detail.
 17. Discuss the uses of static fields and static methods with an example.
 18. Write a Java program to implement the hierarchical inheritance.
 19. Write a Java applet program to display moving ball.
 20. List and explain the life cycle of Applet program.
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E-0378

Sub. Code

1BITE2A

B.Sc. DEGREE EXAMINATION, APRIL 2019

Fifth Semester

Information Technology

***Elective* – COMPUTER NETWORKS**

(CBCS – 2011 onwards)

Time : 3 Hours

Maximum : 75 Marks

Part A

(10 × 2 = 20)

Answer **all** questions.

1. Define Computer Networks.
2. Expand ISDN.
3. What is Error?
4. Expand HDLC.
5. Define Subnet.
6. What is Firewall?
7. List out any two Performance Issues in Transport Layer.
8. What is Multiplexing?
9. Define Cryptography.
10. Expand DNS.

Part B**(5 × 5 = 25)**

Answer **all** questions, choosing either (a) or (b).

11. (a) Differentiate Broadband and Narrowband ISDN.

Or

- (b) Write short notes on :
- (i) Network Hardware
 - (ii) Network Software.

12. (a) Specify about HDLC protocol.

Or

- (b) Briefly explain about Collision free protocol.

13. (a) Write notes on :

- (i) Tunneling
- (ii) Fragmentation.

Or

- (b) Discuss about any one Routing algorithm.

14. (a) List out elements of Transport Protocols.

Or

- (b) Discuss Crash Recovery in detail.

15. (a) Briefly explain about SNMP.

Or

- (b) Write short notes on Data Compression.

Part C $(3 \times 10 = 30)$

Answer any **three** questions.

16. Briefly explain functions of Physical Layer.
 17. Discuss Sliding Window Protocol.
 18. Illustrate Network Layer in ATM Network.
 19. Explain Flow Control and Buffering.
 20. Discuss about Secret and Public Key Algorithms.
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E-0403

Sub. Code

1BIT1C1

B.Sc. DEGREE EXAMINATION, APRIL 2019

First Semester

Information Technology

PRINCIPLES OF INFORMATION TECHNOLOGY

(CBCS 2011 onwards)

Time : Three Hours

Maximum : 75 Marks

Part A

(10 × 2 = 20)

Answer **all** questions.

1. Distinguish analog and digital signals.
2. State any two ethics of an Information Technology.
3. Write the types of User Interfaces.
4. What is Groupware?
5. Mention the uses of video conferencing.
6. Specify the basic functionalities of Modem.
7. Give any two examples for compression techniques.
8. List the types of database organization.
9. What are six phases of System Analysis and Design?
10. Write the features of OOP.

Part B**(5 × 5 = 25)**

Answer **all** questions, choosing either (a) or (b).

11. (a) Why does digital signal significant? Justify.

Or

- (b) Write the short notes on Connectivity and Interactivity.

12. (a) State and explain the types of User Interfaces

Or

- (b) What are the softwares needed for information managers? Explain them

13. (a) List and explain Telephone-related communication service.

Or

- (b) How does microcomputer used to communicate? Discuss.

14. (a) Explicate the capacity of Multimedia and knowledge storage.

Or

- (b) Describe the hierarchy and concept of key field in detail.

15. (a) What are the steps involved in developing, a program? Explain them.

Or

- (b) Give a brief account on Visual Programming.

Part C $(3 \times 10 = 30)$

Answer any **three** questions.

16. Describe the revolution of computers and communications.
 17. Write the features of any two Internet Web Browsers.
 18. Elaborate the concepts of Workgroup computing.
 19. Discuss the functions of any two secondary storage devices.
 20. Give a brief account on Internet Programming.
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E-0404

Sub. Code

1BIT5C1

B.Sc. DEGREE EXAMINATION, APRIL 2019

Fifth Semester

Information Technology

DATABASE MANAGEMENT SYSTEMS

(CBCS 2011 onwards)

Time : Three Hours

Maximum : 75 Marks

Part A

(10 × 2 = 20)

Answer **all** the questions.

1. What is meant by Relational Database?
2. What is Query?
3. State the primary use of Normalization.
4. What do you mean by functional dependency?
5. Mention the network types.
6. Specify the benefits of parallel databases.
7. Define Index.
8. What is meant by schema object?
9. What is Cursor?
10. Write down the DML commands in PL/SQL.

Part B $(5 \times 5 = 25)$

Answer **all** questions, choosing either (a) or (b).

11. (a) Describe the database design in detail.

Or

- (b) What is Query?

12. (a) Write a short note on Atomic domains.

Or

- (b) Illustrate the steps involved in database designs.

13. (a) Elucidate the concepts of I/O parallelism.

Or

- (b) Briefly discuss about Distributed query processing.

14. (a) Write the procedures to create sequences with an example.

Or

- (b) Briefly explain the concepts of Synonyms.

15. (a) How do you create the Triggers in PL/SQL? Explain with an example.

Or

- (b) Write the features of PL/SQL.

Part C $(3 \times 10 = 30)$

Answer any **three** questions.

16. Briefly explain the various database languages.
17. Discuss the various forms of Normalization.

18. Give a brief account on Database System architecture.
 19. Illustrate the steps involved in creating Views with an example.
 20. Explicate various built-in functions available in PL/SQL.
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E-0405

Sub. Code

1BIT5C2

B.Sc. DEGREE EXAMINATION, APRIL 2019

Fifth Semester

Information Technology

VISUAL PROGRAMMING

(CBCS 2011 onwards)

Time : Three Hours

Maximum : 75 Marks

Part A

(10 × 2 = 20)

Answer **all** questions.

1. Define Handle.
2. Mention the purpose of object components.
3. Write an example for procedure in visual basic.
4. What does MDI mean?
5. Define RDO.
6. What is meant by OLE?
7. Expand ADODC.
8. Write a note on drive list box.
9. List out the types of dialogs in MFC.
10. Write the use of C String class.

Part B**(5 × 5 = 25)**

Answer **all** questions, choosing either (a) or (b).

11. (a) Give an account on Button control.

Or

- (b) Explain the various messages related to list box control.

12. (a) What are the various mouse events are used in Visual Basic? Explain

Or

- (b) Write short notes on control arrays.

13. (a) Describe the data report and their features in Visual Basic.

Or

- (b) Write a note on ODBC.

14. (a) Explain the DirListBox control .Give an example.

Or

- (b) Describe the various file access based operations are used in visual basic.

15. (a) Write a note on MFC class Hierarchy.

Or

- (b) Give an account on Accelerators and AFX functions.

Part C**(3 × 10 = 30)**Answer any **three** questions.

16. Explain the following :
 - (a) Arrays
 - (b) Functions
 17. Explain the Dialogbox and Flex grid controls in Visual Basic. Give an Example.
 18. Write an example for OLE container control. Explain.
 19. Explain the Active X control Constituents and FileList box.
 20. Elucidate the following classes
 - (a) CArchive
 - (b) CExcept
 - (c) CEdit
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E-0406

Sub. Code

1BITE1B

B.Sc. DEGREE EXAMINATION, APRIL 2019

Fifth Semester

Information Technology

**Elective - MULTIMEDIA TECHNOLOGY AND
ITS APPLICATIONS**

(CBCS 2011 onwards)

Time : 3 Hours

Maximum : 75 Marks

Part A

(10 × 2 = 20)

Answer **all** questions.

1. What is Multimedia?
2. What are the Five Elements of Multimedia?
3. Define Computer Architecture.
4. What is text data file?
5. What are the two types of graphics available in multimedia?
6. List the various Audio File Formats.
7. List some multimedia tools.
8. Define Storyboard.
9. Give the use of Authoring tools.
10. What is Internet?

Part B $(5 \times 5 = 25)$

Answer **all** questions, choosing either (a) or (b).

11. (a) Explain the importance of Multimedia?
Or
(b) Write a note on the evolution in multimedia.
12. (a) Write a short note on Multimedia Computer Architecture.
Or
(b) Explain the Hypertext and its use in detail.
13. (a) Write a short note on Graphics file and Application Formats.
Or
(b) Differentiate MIDI and Digital Audio.
14. (a) What is Computer Animation? Explain.
Or
(b) Explain Storyboarding in detail.
15. (a) Elucidate the Multimedia tool selection and Features?
Or
(b) Write a short note on multimedia and internet.

Part C $(3 \times 10 = 30)$

Answer any **three** questions.

16. Briefly discuss the Objectives and the resources for Multimedia Developers.
17. Briefly explain the elements of text and text data files.

18. Explain the Usage of graphics in multimedia applications.
 19. Brief the Characteristics of digital video.
 20. State the Design consideration for web pages in detail.
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E-0407

Sub. Code

1BIT6C2

B.Sc. DEGREE EXAMINATION, APRIL 2019

Sixth Semester

Information Technology

MOBILE COMMUNICATION

(CBCS - 2011 onwards)

Time : 3 Hours

Maximum : 75 Marks

Part A

(10 × 2 = 20)

Answer **all** questions.

1. What is meant by Spread Spectrum?
2. Specify the uses of Antennas.
3. Mention the purpose of VLR in GSM technology.
4. Write the major elements of UMTS system architecture.
5. Differentiate Infrared and radio transmission.
6. What is meant by Mobile QoS?
7. Why is COA entity needed for mobile IP?
8. State the purpose of Dynamic Host Configuration Protocol?
9. What is meant by Reintegration in a file system?
10. What is WWW?

Part B**(5 × 5 = 25)**

Answer **all** the questions, choosing either (a) or (b).

11. (a) Explain the simplified reference model of wireless communication network.

Or

- (b) Write short note on cellular systems.

12. (a) Explain the handover scenarios in GSM.

Or

- (b) Write short note on

(i) CDMA

(ii) TDMA.

13. (a) Explain the three inter-frame spacing of MAC Layer.

Or

- (b) Explain the security features of Bluetooth.

14. (a) Give a brief account on Mobile Transport Layer.

Or

- (b) What are the fundamental differences between wired networks and ad hoc wireless networks?

15. (a) Expound the concepts of Consistency in File system.

Or

- (b) Write a short note on HTTP.

Part C $(3 \times 10 = 30)$

Answer any **three** questions.

16. Discuss the various types of multiplexing techniques.
 17. Explain the GSM security and GPRS.
 18. Discuss the system architecture and protocol architecture of IEEE 802.11.
 19. Explicate the concepts of IP packet delivery in mobile IP.
 20. Elucidate the components involved in the WAP architecture.
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E-0408

Sub. Code

1BITE3A

B.Sc. DEGREE EXAMINATION, APRIL 2019

Sixth Semester

Information Technology

Elective: DISTRIBUTED COMPUTING

(CBCS 2011 onwards)

Time : Three Hours

Maximum : 75 Marks

Part A

(10 × 2 = 20)

Answer **all** questions.

1. What is a network?
2. What are Application Services?
3. Mention the use of Primitive values.
4. What is RPC used for?
5. Describe a process.
6. What do you mean by Communication Manager?
7. Define Internal Synchronization.
8. Mention the use of Multicast Communication
9. What is a Transaction?
10. Describe Fault Tolerance.

Part B $(5 \times 5 = 25)$

Answer **all** questions, choosing either (a) or (b).

11. (a) Mention the responsibilities of the Physical Model of a distributed system.

Or

- (b) Give a short account on Bluetooth Technology.

12. (a) Explicate about Client-server communication.

Or

- (b) How is communication done between distributed objects? Explain.

13. (a) Give a short note on Communication Primitives.

Or

- (b) What are the requirements of a Distributed File System?

14. (a) How are Physical Clocks synchronized? Clarify.

Or

- (b) Write a short note on Distributed mutual exclusion.

15. (a) Interpret the steps to recover from a failed Transaction.

Or

- (b) Describe about Timestamp ordering briefly.

Part C $(3 \times 10 = 30)$

Answer any **Three** questions.

16. Explain the trends of distributed systems in detail.
17. Elucidate about Request-Reply protocols.

18. Describe in detail about Digital Signing.
 19. Discuss about Name Services and the Domain Name System.
 20. Enumerate and explain the Fault - tolerant Services.
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E-0409

Sub. Code

1BITSA2

U.G. DEGREE EXAMINATION, APRIL 2019

Information Technology

Allied : OPERATIONS RESEARCH

(CBCS – 2011 onwards)

Time : 3 Hours

Maximum : 75 Marks

Part A

(10 × 2 = 20)

Answer **all** questions.

1. What are the advantages of a model in O.R?
2. Write all the steps are involved in LPP using graphical method.
3. Define Optimum solution.
4. Write down any two characteristics of O.R.
5. Write about the use of the artificial variable
6. Define dual of LPP.
7. What do you mean by unbalanced A.P?
8. Write about non degenerate basic feasible solution in T.P.
9. Differentiate feasible solution and basic feasible solution in T.P.
10. What do you mean by rimrequirements loop in T.P?

Part B**(5 × 5 = 25)**Answer **all** questions choosing either (a) or (b).

11. (a) Write down the characteristics of O.R.

Or

- (b) Explain the merits and demerits of O.R.

12. (a) Define : Slack variable
-
- Surplus variable
-
- Artificial variable

Or

- (b) Solve the following LPP using graphical method.

Maximize $Z = 3x_1 + 2x_2$

Subject to : $2x_1 + x_2 \leq 40$

$x_1 + x_2 \leq 24$

$2x_2 + 3x_3 \leq 60$

$x_1, x_2 \geq 0$

13. (a) Use the simplex method to :

Maximize $Z = 10x_1 + x_2 + 2x_3$

Subject to : $x_1 + x_2 - 2x_3 \leq 10$

$4x_1 + x_2 + x_3 \leq 20$

$x_1, x_2, x_3 \geq 0$

Or

- (b) Explain Gomory's cutting plane method.

14. (a) Solve the following A.P.

	1	2	3
A	120	100	80
B	80	90	110
C	110	140	120

Or

- (b) Explain the method of solving the Assignment problem.
15. (a) Solve the following Transportation problem using VAM.

	A	B	C	capacities
1	2	2	3	10
2	4	1	2	15
3	1	3	0	40
Demand	20	15	30	

Or

- (b) Explain the mathematical formulation of an Assignment problem.

Part C

(3 × 10 = 30)

Answer any **three** questions.

16. What are the scopes of O.R?
17. Solve the following problem using Simplex method.
 Maximize $Z + 2x_1 + 4x_2 + x_3 + x_4$
 Subject to : $x_1 + 3x_2 + x_4 \leq 4$
 $2x_1 + x_2 \leq 3$
 $x_2 + 4x_3 + x_4 \leq 3$
 $x_1, x_2, x_3, x_4 \geq 0$

18. Solve the following by Big M-method

$$\text{Minimize } Z = 12x_1 + 20x_2$$

$$\text{Subject to : } 6x_1 + 8x_2 \geq 100$$

$$7x_1 + 12x_2 \geq 120$$

$$x_1, x_2 \geq 0$$

19. Use dual simplex method to

$$\text{Minimize } z = 3x_1 + x_2$$

$$\text{Subject to : } x_1 + x_2 \geq 1$$

$$2x_1 + 3x_2 \geq 2$$

$$x_1, x_2 \geq 0$$

20. Solve the following Transportation problem.

	A	B	C	Available
I	6	8	4	14
II	4	9	8	12
III	1	2	6	5
Demand	6	10	15	

E-0410

Sub. Code

1BITSA3

U.G. DEGREE EXAMINATION, APRIL 2019

Information Technology

Allied — ACCOUNTING PRINCIPLES AND COMPUTER APPLICATIONS

(CBCS – 2011 onwards)

Time : 3 Hours

Maximum : 75 Marks

Part A

(10 × 2 = 20)

Answer **all** questions.

1. Define the term “Book Keeping”.
2. What is meant by Trail Balance?
3. Assets – Liabilities =.
4. What is an Asset? Write its types.
5. Define Cash.
6. What is the difference between purchases and purchases return book?
7. Differentiate between Assets and Liabilities.
8. What is a Final Account?
9. Define the term “Accounts Receivable”.
10. What is called Journal Proper?

Part B

(5 × 5 = 25)

Answer **all** questions, choosing either (a) or (b).

11. (a) Prepare Profit and Loss Account, from the following balances of Mr. Murugan for the year ending 31.12.2009

Office rent	Rs. 3000
Printing expenses	Rs. 2,200
Tax, Insurance	Rs. 1,400
Discount received	Rs. 400
Advertisement	Rs. 3,600
Salaries	Rs. 8,000
Stationeries	Rs. 2,400
Discount allowed	Rs. 600
Travelling expenses	Rs. 2,600
Gross Profit transferred from the Trading A/c	Rs. 25,000.

Or

- (b) Explain the Principles and Importance of Financial Accounting.

12. (a) Difference between a Trial Balance and a Balance Sheet.

Or

- (b) From the following balances extracted from the books of a trader, prepare Trial Balance as on 31st March, 2010.

	Rs.
Cash in hand	4,200
Cash at Bank	16,800
Bills Receivable	18,000
Bills payable	16,000
Sundry debtors	24,600
Sundry creditors	32,400
Capital	50,000
Drawings	18,000
Sales	1,05,000
Purchases	75,000
Carriage Inward	2,700
Salaries	12,000
Advertisement	2,400
Insurance	1,600
Furniture	7,500
Stock	18,600
Office Rent	2,000

13. (a) Enter the following transactions in the purchase book and sales book of Mr. Nanda.

2011

February

- 1 Purchased goods from Sonal for Rs. 6000 at a discount of Rs. 200.
- 3 Purchased furniture on credit from Das bros. for Rs. 10,000.
- 5 Sold goods on credit to Keshav Rs. 6000.
- 7 Sold goods for cash to Chandra Rs. 8600.
- 10 Sold goods to Tina Traders for Rs. 4500, less discount Rs. 300.
- 15 Withdrew from bank Rs. 2,500
- 19 Bilwara Traders supplied goods to Nanda worth Rs. 3600 on credit.
- 25 Purchased stationary for Rs. 600

Or

- (b) Prepare a Cash Book with discount column of Shri. Shyam from the following transaction. Enter the following in Shri. Shyam's Cash Book and show the Balance:

2010

March

- 1 Balance of cash in Hand Rs. 25,000
- 3 Rent paid Rs. 2,000
- 5 Purchased goods for cash Rs. 10,000
- 10 Stationery purchased Rs. 2,500
- 12 Sold Goods for Cash for Rs. 8,000
- 15 Cash received from Ram Rs. 980 and discount allowed Rs.20
- 18 Cash paid to Shyam Rs.950 and discount Received Rs.50
- 25 Wages Paid Rs. 2,000

14. (a) Draw a Specimen Form for a Trading A/c.

Or

(b) From the following information of Raja's Ltd. on 31st March, 2005 you are required to prepare the Trading, Profit and Loss A/c and Balance Sheet:

	Rs.		Rs.
Opening Stock	5,000	Capital	89,500
Bills Receivable	22,500	Commission (Cr.)	2,000
Purchases	1,95,000	Return Outward	2,500
Wages	14,000	Trade Expenses	1,000
Insurance	5,500	Office Fixtures	5,000
Sundry Debtors	1,50,000	Cash in Hand	2,500
Carriage inward	4,000	Cash at Bank	23,750
Commission (Dr.)	4,000	Rent and Rates	5,500
Interest on capital	3,500	Carriage outward	7,250
Stationery	2,250	Sales	2,50,000
Return inward	6,500	Bills payable	15,000
Creditors	98,250		
Closing stock	12,500		

15. (a) From the following prepare a bank reconciliation statement on 31st marc 2005.
- (i) Balance as per Cash Book 1,80,000
 - (ii) Cheques paid into Bank on March 2005 but credited by the bank in April 2005 – 7,900
 - (iii) Cheques issued in March 2005 but cashed in April 2005 - 11,000
 - (iv) Cheques entered in the Cash Book in March 2005 but paid into bank in April 2005 - 1,000
 - (v) Interest allowed by the bank 2,500
 - (vi) Interest charged by the bank 500.

Or

- (b) From the following particulars of M/s. Ananaya Industries, prepare bank reconciliation statement as on December 31, 2006.
- (i) Bank balance as per cash book Rs. 32,500
 - (ii) Cheques deposited into bank but not credited upto December 31, 2006 Rs. 8,900.
 - (iii) Cheques issued but not presented for payment Rs. 12,500.
 - (iv) Bank credited Rs. 5,000 for receiving dividend though Electronic Clearing System.
 - (v) Bank charges debited by Bank Rs. 400.

Part C

(3 × 10 = 30)

Answer any **three** questions.

16. Record the following transactions in a Journal and then post the entries into the ledger.
- (a) 15th June: Ibrahim a sole proprietor Commenced business with a capital of Rs. 2,00,000.
 - (b) 17th June: Bought Furniture for cash Rs. 20,000.
 - (c) 17th June: Paid Rent to the shop owner Mr. Murugan Rs. 5,000.
 - (d) 18th June: Paid cash into bank Rs. 1,50,000
 - (e) 18th June: Bought Goods for cash Rs. 10,000 from MIs Shamir Jam & Co.,
 - (f) 18th June: Bought Goods on credit from M/s. Ramdas and Bros, for Rs. 10,000.
 - (g) 19th June: Sold goods for cash Rs. 12,000 to Mr. Naryan Tiwari
 - (h) 20th June: Bought Machinery from M/s Boolani Machinery and paid by cheque Rs. 25,000.
 - (i) 21st June: Sold goods on credit to Mr. Natekar for Rs. 8,000
 - (j) 21st June: Paid weekly wages to workers Rs. 5,000
 - (k) 24th June: Paid M/s Ramdas and Brothers by cheque Rs. 5,000
 - (l) 24th June: Received from Mr. Natekar Rs. 2,000
 - (m) 24th June: Received commission from M/s Orion Traders for giving a trade lead Rs. 500.

17. From the following trial balance extracted from the books of Thiru. Venkatachalam as on 31.12.07. Prepare

(a) Trading and Profit and Loss A/c and

(b) Balance Sheet Trial Balance as on 31.12.07

Debit balances	Rs.	Credit balances	Rs.
Cash in hand	2,000	Capital	2,00,000
Machinery	60,000	Sales	2,54,800
Stock	50,000	Sundry Creditors	40,000
Bills receivable	1,600	Bank overdraft	22,000
Sundry debtors	50,000	Return outwards	3,000
Wages	70,000	Discount received	1,800
Land	40,000	Bills payable	1,800
Carriage inwards	2,400		
Purchases	1,80,000		
Salaries	24,000		
Rent	4,000		
Postage	1,000		
Return inwards	3,200		
Drawings	10,000		
Furniture	18,000		
Interest	600		
Cash at bank	6,600		
	<u>5,23,400</u>		<u>5,23,400</u>

Stock as on 31.12.07 to Rs. 1,00,000

18. Enter the following transactions in a two-column cash Book.

2005		Rs.
January		
1	Cash in hand	15,000
5	Paid to Mohan	3,000
5	Discount allowed by him	100
6	Purchased goods	4,000
10	Received from Vijay	9,800
10	Discount allowed	200
11	Sold goods	4,000
12	Paid to Shyam	2,950
	Discount received	500
13	Paid wages	500
14	Paid to Rajesh in full settlement of his Account, which shows a Cr. Balance of	4,000

19. Enter the following transactions in the purchase book of Arun Kumar :

2004 May

1. Bought from Mr 'A' 10 boxes of Nirma soap @ Rs. 150 per box @ discount of 20%.
8. Purchased from Mr. 'B' 5 boxes of Vim detergent powder Rs 60 per box, for cash.
10. Received from Mr. 'C' 120 pieces of sandalwood soap @ Rs. 8 per piece, less discount 20%.
15. Purchased furniture from Mr. 'D' Rs. 5,548.
18. Received invoice from Mr. 'E' for 15 cases of "Wash bar" @ Rs. 180 per box. 12 cases of washing powder Rs 60 per cake. Forwarding charges Rs. 20 less 25% discount.
30. Purchased office stationery from Mr. 'A' Rs. 180.

20. (a) Overdraft shown by the passbook of M/s. Mohit trader is Rs. 40,000. Prepare Bank Reconciliation statement on December 31,2006.
- (i) Bank charges debited as per pass book Rs. 1,000
 - (ii) Received a payment directly from customer Rs. 7,000
 - (iii) Cheques wrongly recorded in debit side of cash book Rs. 4,000
 - (iv) Cheques issued but not presented for payment Rs. 9,800
 - (v) Cheques deposited with the bank but not collected Rs. 12,500
 - (vi) Insurance premium paid by the bank Rs. 3,500.
- (b) On April 1, 2006, Rohan had an overdraft of Rs. 16,000 as shown by the cash book. Cheques amounting to Rs. 6,000 had been paid by him but not collected by the bank till date. He issued cheques of Rs. 8,000 which were not presented to the bank for payment. There was a debit in his passbook of Rs. 500 for interest and Rs. 200 for bank charges and a cheque of Rs.5000 was paid into bank but the same was debited twice in the cash book. Prepare Bank Reconciliation Statement.
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E-0411

Sub. Code

1BITS4

U.G. DEGREE EXAMINATION, APRIL 2019

Information Technology

Allied: E-COMMERCE

(CBCS - 2011 onwards)

Time : 3 Hours

Maximum : 75 Marks

Part A

(10 × 2 = 20)

Answer **all** questions.

1. Define Convergence.
2. What is MPEG?
3. Define Multimedia Convergence.
4. What is Message Passing?
5. List the benefits of using Smart Cards.
6. What are the four layers of EDI Architecture?
7. List the two types of Micromarketing.
8. Define Catalog Model.
9. What is DIT?
10. Define the term "Training on-demand".

Part B**(5 × 5 = 25)**Answer **all** questions, choosing either (a) or (b).

11. (a) Explain: The History of the Internet.

Or

- (b) Write a short note on “E-Commerce Framework”.

12. (a) Explain: World Wide Web as the Architecture.

Or

- (b) Give a brief note on Electronic Checks.

13. (a) What are the different types of Financial EDT? Explain.

Or

- (b) Write a short note on EDT Gateways.

14. (a) Explain: Pull-based Advertising.

Or

- (b) Explain the concept: “Electronic Yellow Pages”.

15. (a) What are the Challenges in “On-line Education”? Explain.

Or

- (b) Explain the History of Software Agents.

Part C**(3 × 10 = 30)**Answer any **three** questions.

16. Describe the E-Commerce Applications in detail.
17. Explain the three Distinct Classes of E-Commerce Application Services.

18. With neat diagram, discuss EDI Software Implementation.
 19. Illustrate the concept of Consumer-Data Interface in detail.
 20. Elucidate the Characteristics and Properties of Agents.
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