

MAY 2018

(NO. OF PAGES: 2)

(FOR THE CANDIDATES ADMITTED

17 UIT 204

DURING THE ACADEMIC YEAR 2017 ONLY)

REG.NO.:

N. G. M COLLEGE (AUTONOMOUS): POLLACHI
END – OF – SEMESTER EXAMINATIONS: MAY - 2018
B.Sc. - I.T. MAXIMUM MARKS: 75
SEMESTER: II TIME: 3 HOURS

PART – III

17UIT204 – OBJECT ORIENTED PROGRAMMING WITH JAVA

SECTION – A

(10 X 1 = 10 MARKS)

ANSWER THE FOLLOWING QUESTIONS:

(Multiple Choice Questions)

1. The wrapping up of data and methods into a single unit is known as _____.
a) Encapsulation b) Inheritance c) Array d) None
2. Java is a true _____ oriented language.
a) Structure b) Object c) Scripting d) All
3. The Runnable interface declares the _____ method.
a) Start() b) Stop() c) Run() d) Wait()
4. _____ are small java programs that are primarily used in internet computing.
a) Applets b) Packages c) Interfaces d) I/O Files
5. The super class is an _____ stream in an abstract class.
a) Output b) Input c) Both a&b d) None

SHORT ANSWERS:

6. Define Variables with examples.
7. Define Interfaces with examples.
8. Define Exceptions.
9. Define Drawing Arcs.
10. Define Piped Streams.

SECTION –B

(5x5=25 MARKS)

ANSWER EITHER (a) OR (b) IN EACH OF THE FOLLOWING QUESTIONS:

11. a) How java differs from C and C++? .
(OR)
b) Write short notes on Constants with examples.

12. a) Explain about Method declaration in java..
(OR)

b) Discuss about String with proper examples.

(CONTD...2)

(17UIT204)

/2/

13. a) Write a note on Java API packages.

(OR)

b) Explain exception handling with example.

14. a) Give a brief introduction to Applet Programming.

(OR)

b) List out any five HTML Tags with examples.

15. a) Explain about Stream Classes with examples.

(OR)

b) Write short notes on Handling of Primitive Data types.

SECTION-C

(4x10=40 MARKS)

ANSWER ANY FOUR OUT OF SIX QUESTIONS

(16th QUESTION IS COMPULSARY AND ANSWER ANY THREE QUESTIONS FROM Qn.No.:17 to 21)

16. Explain the Basic Concepts of object oriented programming.

17. List out Java Features and Explain.

18. Define about Creating an Array with suitable program.

19. Illustrate on Types of Errors with examples.

20. Explain about the Applet Life Cycle.

21. Examine about the Concept of Streams with an example.

(A-4)

(NO. OF PAGES: 2)

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17 UIT 205

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N. G. M COLLEGE (AUTONOMOUS): POLLACHI

END – OF – SEMESTER EXAMINATIONS: MAY - 2018

B.Sc. I.T.

MAXIMUM MARKS: 75

SEMESTER: II

TIME: 3 HOURS

PART – III

17UIT205 – DATA STRUCTURES

SECTION – A

(10 X 1 = 10 MARKS)

ANSWER THE FOLLOWING QUESTIONS:

(Multiple Choice Questions)

1. Which of the following memory management function can be used to allocate space for an array of elements?
a. malloc b. calloc c. realloc d. nalloc
2. If the operator symbols are placed before its operands, then the expression is in _____ notation
a. frontfix b. postfix c. Infix d. prefix
3. A data structure in which insertion and deletion can take place at both the ends is called _____
a. deque b. stack c. Circular queue d. Priority queue
4. _____ is a node, which has no sons.
a. Father b. Ancestor c. Leaf node d. Siblings
5. The best case complexity of Quick Sort is _____
a. $O(n^2)$ b. $O(n \log n)$ c. $O(n^3)$ d. $O(\log n)$

SHORT ANSWERS:

6. Define Atomic Node Linked List.
7. What is Overflow?
8. Define Circular Queues
9. Define Strictly binary tree.
10. What is Hashing?

SECTION - B

(5 X 5 = 25 MARKS)

ANSWER EITHER (a) OR (b) IN EACH OF THE FOLLOWING QUESTIONS:

11. a. Discuss about Arrays in C
(OR)

b. Write the basic concept and operation of Doubly Linked List

(CONTD...2)
(17UIT205)

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12. a. Briefly explain about representation of Stacks through Arrays

(OR)

b. Explain about Stacks and Recursion

13. a. List out the applications of Queue in detail.

(OR)

b. Explain about Priority Queues

14. a. Elucidate about Operations on a Binary Search Tree.

(OR)

b. Discuss about reconstruction of Binary tree

15. a. Write a detail note on Bubble Sort with an example

(OR)

b. What do you know about Hash functions?. List out its types.

SECTION - C

(4 X 10 = 40 MARKS)

ANSWER ANY FOUR OUT OF SIX QUESTIONS:

(16TH QUESTION IS COMPULSORY)

16. Explain about Quick Sort with an example

17. List out the Operations of array and explain them.

18. Explain about the applications of Stacks

19. Illustrate Double Ended Queue.

20. Discuss about Binary tree traversal in detail

21. Discuss about Standard Searching methods.

(A-4)

(FOR THE CANDIDATES ADMITTED
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17 UIT 2A2

REG.NO.:

N. G. M COLLEGE (AUTONOMOUS): POLLACHI
END – OF – SEMESTER EXAMINATIONS: MAY - 2018
B.Sc. I.T. MAXIMUM MARKS: 75
SEMESTER: II TIME: 3 HOURS

PART – III

17UIT2A2 – MATHEMATICAL FOUNDATIONS FOR COMPUTER SCIENCE

SECTION – A

(10 x 1 = 10 MARKS)

ANSWER THE FOLLOWING QUESTIONS:

(Multiple Choice Questions)

- If A and B are two matrices then $(AB)^T =$ _____.
 a) $B^T A^T$ b) $(BA)^T$ c) BA d) $A^T B^T$
- If $A = \{1, 2, 3\}$ and $B = \{2, 4, 5\}$ then $A \cup B =$ _____.
 a) $\{1, 2, 3, 4, 5\}$ b) $\{1, 2, 4, 5\}$ c) $\{1, 2, 5, 6\}$ d) $\{1, 2, 3, 4, 5, 6\}$
- A statement that is always true for all possible values of its propositional variables is called a
 a) Tautology b) contradiction c) conjunction d) well formed formula
- If $R = \{(1, 2), (3, 4), (2, 2)\}$ and $S = \{(4, 2), (2, 2), (3, 1), (1, 3)\}$ are relations then $R \circ S =$ _____.
 a) $\{(4, 2), (3, 2), (1, 4)\}$ b) $\{(1, 5), (3, 2), (2, 5)\}$
 c) $\{(1, 2), (2, 2), (3, 2)\}$ d) $\{(4, 5), (3, 3), (1, 1)\}$
- A graph which contains multiple edges and loops are called as.....
 a) Digraph b) Multigraph c) simple graph d) closed graph

SHORT ANSWERS:

6. Find $\begin{vmatrix} 4 & 8 \\ -9 & 4 \end{vmatrix}$

7. State De Morgan's Law.

8. Construct the truth table $7(7P \vee 7Q)$

9. Define Equivalence Relation.

10. Define connected graph.

SECTION – B

(5 x 5 = 25 MARKS)

ANSWER EITHER (a) OR (b) IN EACH OF THE FOLLOWING QUESTIONS:

11. a) Find the rank of the matrix $\begin{bmatrix} 1 & 1 & -1 & 1 \\ 1 & -1 & 2 & -1 \\ 3 & 1 & 0 & 1 \end{bmatrix}$

(OR)

b) If $A = \begin{bmatrix} 3 & 5 \\ 2 & a \end{bmatrix}$, $B = \begin{bmatrix} 4 & b \\ 2 & 9 \end{bmatrix}$ and $C = \begin{bmatrix} 26 & a \\ 14 & 45 \end{bmatrix}$. Find a & b when $2A + 5B = C$

(CONTD...2)

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(17UIT2A2)

12. a) Explain the types of sets.

(OR)

b) Out of 450 students in a school, 193 students read science, 200 students read commerce and 80 students read neither. Find out how many read both.

13. a) Show that $\neg(P \cup Q) = \neg P \cap \neg Q$

(OR)

b) Show that $(P \cap Q) \cap \neg(P \cup Q)$ is a fallacy or contradiction.

14. a) Prove that $A \times (B \cup C) = (A \times B) \cup (A \times C)$

(OR)

b) Let A and B be two non-empty sets. If f is one –one, onto function from A to B, the prove that the inverse function $f^{-1}: B \rightarrow A$ is unique.

15. a) Prove that the number of vertices of odd degree in a graph is always even.

(OR)

b) i) Draw the complete graph of K_5 and K_6 .

ii) Find the number of edges in the graph K_{12} and K_{15}

SECTION-C

(4x10=40 MARKS)

ANSWER ANY FOUR OUT OF SIX QUESTIONS

(16th QUESTION IS COMPULSORY AND ANSWER ANY THREE QUESTIONS FROM Qn.No.:17 to 21)

16. Let I be the set of all integers and $R = \{(a,b) : a,b \in I \text{ and } a-b \text{ is divisible by } 3\}$ is an equivalence relation. Find equivalence classes.

17. Find the inverse of $\begin{bmatrix} 1 & -2 & 3 \\ 4 & 1 & 1 \\ 1 & 2 & 1 \end{bmatrix}$

18. In a class of 25 students of Economics and politics, 12 students have taken Economics out of their 8 have taken Economics but not politics. Find the number of students who have taken Economics and Politics and those who have taken politics but not Economics.

19. Find the negation of the following statements

$$\forall x \exists y [\{ p(x, y) \cap q(x, y) \} \rightarrow r(x, y)]$$

20. Show that the composition of functions obeys associative law.

21. Draw the digraph G corresponding to adjacency matrix

$$\begin{bmatrix} 1 & 1 & 0 & 0 \\ 0 & 0 & 1 & 0 \\ 0 & 1 & 0 & 1 \\ 1 & 0 & 0 & 1 \end{bmatrix}$$

(A-4)

(NO. OF PAGES: 2)

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16 UIT 412

DURING THE ACADEMIC YEAR 2016 ONLY)

REG.NO.:

N. G. M COLLEGE (AUTONOMOUS): POLLACHI

END – OF – SEMESTER EXAMINATIONS: APRIL/MAY - 2018

B.Sc. I.T.

MAXIMUM MARKS: 75

IV - SEMESTER

TIME: 3 HOURS

PART – III

ADVANCED JAVA PROGRAMMING

SECTION – A

(10 X 1 = 10 MARKS)

ANSWER THE FOLLOWING QUESTIONS:

(Multiple Choice Questions)

1. What does AWT stands for?
(a) Abstract Writing Toolkit (b) All Window Tools
(c) All Writing Tools (d) Abstract Window Toolkit
2. Which file separator should be used by MANIFEST file?
(a) / (b) \ (c) – (d) //
3. Which type of driver provides JDBC access via one or more ODBC drivers?
(a) Type 1 driver (b) Type 2 driver (c) Type 3 driver (d) Type 4 driver
4. Which element is used to execute java source code in JSP?
(a) Declaration Tag (b) Scriptlet Tag (c) Expression Tag (d) None of the above
5. AJAX stands for _____.
(a) Asynchronous Javascript and XML (b) Abstract Java and XML
(c) Another Java and XML Library (d) None of the above

SHORT ANSWERS:

6. What are heavyweight and lightweight components?
7. Define java beans.
8. What is JDBC Driver interface?
9. What is JSP technology?
10. What is JSTL?

SECTION – B

(5 X 5 = 25 MARKS)

ANSWER EITHER (a) OR (b) IN EACH OF THE FOLLOWING QUESTIONS

11. (a) Write short notes on different layout managers

(Or)

(b)What is JComponent Class in Java Swing? Give example

12. (a)What is the function of Application Builder Tools of Java Bean?

(Or)

(b)What are the steps to create MANIFEST file? Give example

(CONTD....2)
(16UIT412)

/2/

13. (a) Short notes on different types of JDBC – Drivers

(Or)

(b) What are the differences between GET and POST methods in servlet programming?

14. (a) What is implicit objects in Java Server Page (JSP)

(Or)

(b)How to connect JSP page from the HTML file? Give example

15. (a) How XML HTTP request object is interacted with the server?

(Or)

(b)How JSTL supports database operations using SQL Tags?

SECTION – C

(5 X 8 = 40 MARKS)

ANSWER EITHER (a) OR (b) IN EACH OF THE FOLLOWING QUESTIONS:

16. (a)Explain in detail about Swing Text Components? Give examples

(Or)

(b) What are all the Advanced Components in Java Swing packages?

17. (a)Explain the following Java Bean property:

1) Bean Info Interface 2) Persistence

(Or)

(b) How to create Java Bean component using Bean Builder? Give example

18. (a)Explain the steps for querying database with JDBC.

(Or)

(b) How to generate plain text using Java Servlet? Give an example

19. (a)What are all the JSP directives? Give example of each directive

(Or)

(b)How the JSP life cycle is working during the page uploading?

20. (a) Explain in detail about JSTL XML tag library with suitable examples

(Or)

(b) Describe the most common working concepts of AJAX in a web application

(A-4)

(FOR THE CANDIDATES ADMITTED

16UIT413

DURING THE ACADEMIC YEAR 2016 ONLY)

REG.NO.:

N.G.M COLLEGE (AUTONOMOUS): POLLACHI

END – OF – SEMESTER EXAMINATIONS: APRIL/MAY - 2018

B.Sc. I.T.

MAXIMUM MARKS: 75

IV - SEMESTER:

TIME: 3 HOURS

PART – III

C# .NET PROGRAMMING

SECTION – A

(10 X 1 = 10 MARKS)

ANSWER THE FOLLOWING QUESTIONS:

(Multiple Choice Questions)

21. How many bytes are stored by 'Long' Datatype in C# .net??
(a) 8 (b) 4 (c) 2(d) 1
22. The theory of _____ implies that user can control the access to a class, method, or variable
(a) Data hiding (b)Encapsulation (c) Information hiding (d) Polymorphism
23. Exception objects are derived from the _____ class.
(a) Try (b) Catch (c) Exception (d) Event
24. Which of the given stream methods provide access to the output console by default in C#.NET?
(a) Console.In (b) Console.Out (c) Console.Error (d) None of the above
25. Which of the following webserver control used as container for other server controls in a web page?
(a) Placeholder (b)Panel (c) Table (d) ImageMap

SHORT ANSWERS:

26. Give the categorization of the variables in C#
27. Define copy constructor in C#
28. Can we execute multiple catch blocks in C#?
29. What is the use of BinaryWriter class in C# I/O classes?
30. What is web services?

SECTION – B

(5 X 5 = 25 MARKS)

ANSWER EITHER (a) OR (b) IN EACH OF THE FOLLOWING QUESTIONS:

31. (a) Explain the features of C#?

(Or)

(b) What is method overloading in C# programming? Give example

32. (a) Give a short note on abstract class and abstract method in C#

(Or)

(b) What is constructor? Give the difference between copy and static constructor

(CONTD...2)

/2/

(16UIT413)

33. (a) Explain namespaces in C# programming

(Or)

(b) Explain: Thread Class and Priority

34. (a) Short note on Binary Data Files in C# programming

(Or)

(b) Explain the following: 1) Text Files 2) Data Files

35. (a) How the web controls used for validation of a web page?

(Or)

(b) How to create web services using data source?

SECTION – C

(5 X 8 = 40 MARKS)

ANSWER EITHER (a) OR (b) IN EACH OF THE FOLLOWING QUESTIONS:

36. (a) Explain the following control statements in detail

(i) if (ii) Switch (iii) While & do-while (iv) for

(Or)

(b) Explain one and two dimensional array in C# programming

37. (a) How to overload an operator in C# programming?

(Or)

(b) Explain in details about inheritance and polymorphism in C#

38. (a) How the events and attributes functioning on C# programming?

(Or)

(b) Describe the concept of Multithreading in C# programming

39. (a) How to create windows form application using C#?

(Or)

(b) How to connect and access the database in C#? Give example program

40. (a) Explain in detail about User and Custom Web Controls
(Or)
(b) Explain in detail about Web Service Concepts

(A-4)

(NO. OF PAGES: 2)

(FOR THE CANDIDATES ADMITTED

16 UIT 4A4

DURING THE ACADEMIC YEAR 2016 ONLY) REG.NO.:

N. G. M COLLEGE (AUTONOMOUS): POLLACHI

END – OF – SEMESTER EXAMINATIONS: MAY - 2018

B.Sc. I.T.

MAXIMUM MARKS: 75

SEMESTER: IV

TIME: 3 HOURS

PART – III

16UIT4A4– CLOUD COMPUTING

SECTION – A

(10 X 1 = 10 MARKS)

ANSWER THE FOLLOWING QUESTIONS:

(Multiple Choice Questions)

1. Which one of the following refers to dumb terminal?
a) Client b) Server c) Mainframe d) Storage
2. Expand CRM.
a) Computer Resource Management b) Customer Resource Management
c) Consumer Resource Management d) Client Resource Management
3. The registration module is a backbone of entire _____ program.
a) Facility management b) Task management
c) Event marketing d) Event management
4. Which of the following is not a spread sheet application.
a) Peepal Websheet b) Numsum c) Glide Write d) Sheetster
5. AOL instant messenger is also known as _____.
a) AIM b) ATM c) ANT d) AMI

SHORT ANSWERS:

6. Mention an example for Google application.
7. What is the use of e-mail?
8. What is a Customer Relationship management?
9. What are the two database products of ZOHO?
10. Mention the first Wiki.

SECTION – B

(5 X 5 =25 MARKS)

ANSWER EITHER (a) OR (b) IN EACH OF THE FOLLOWING QUESTIONS:

11. a) Write down the properties of Cloud computing.
[OR]
b) Who is benefited from cloud computing? Explain.
12. a) Explain about collaborating on Schedules.
[OR]
b) Explain on the online scheduling applications.

(CONTD...2)

13. a) Discuss about contact management and CRM.
[OR]
b) Explain about Project management applications.
14. a) Explain the benefits of web based word processors.
[OR]
b) Write about the benefits and risks of cloud storage.
15. a) Explain the features of Web conferencing tools.
[OR]
b) Explain the Social network groups.

SECTION – C (5 X 8 =40 MARKS)

ANSWER EITHER (a) OR (b) IN EACH OF THE FOLLOWING QUESTIONS:

16. a) List and explain the Pros and cons of cloud computing.
[OR]
b) Explain the working of cloud computing.
17. a) Describe how cloud computing is useful in daily life.
[OR]
b) Elaborate planning and task management in cloud services.
18. a) Describe the Event management applications.
[OR]
b) Explain any four Contact management and CRM applications.
19. a) Discuss about the Web based presentation applications.
[OR]
b) Explain on web based desktops.
20. a) Elaborate on Web mail services.
[OR]
b) Write in detail about the Wikis.

(FOR THE CANDIDATES ADMITTED DURING
THE ACADEMIC YEAR 2016 ONLY)

16 UIT 4N2

REG. NO.:

NGM COLLEGE (AUTONOMOUS) POLLACHI
END OF SEMESTER EXAMINATIONS: MAY 2018
UG COURSES (SF) MAXIMUM MARKS: 50
IV SEMESTER TIME: 2 HOURS

PART-IV: NON MAJOR ELECTIVE PAPER – III

INFORMATION SECURITY

SECTION – A

(10x1 = 10 Marks)

ANSWER ALL THE QUESTIONS:

(Multiple choice questions)

1. _____ is an entity that is mainly responsible for all the decisions related to access controls.
(a) Reference monitor (b) Privacy concern (c) Trusted system (d) Access control.
2. The principle of _____ ensures that only the sender and intended recipients have access to the contents of a message.
(a) Authentication (b) Confidentiality (c) Integrity (d) Non-repudiation.
3. _____ is a combination of cryptography and crypto analysis.
(a) plain text (b) cipher text (c) cryptology (d) cryptographic
4. The substitution cipher text, the following happen _____.
(a) Characters are replaced by other characters
(b) Rows are replaced by columns.
(c) Columns are replaced by rows.
(d) None of the above.
5. Rail fence technique is an example of _____.
(a) Transposition (b) Simple columnar transposition
(c) Basic Technique (d) Hill cipher

SHORT ANSWERS:

6. Define trusted system.
7. What is Access control?
8. What are the two basic ways to transforming plain text into cipher text?
9. What is Brute force attack?
10. Discuss the algorithm for Rail Fence Technique.

SECTION – B

(5x8 = 40 Marks)

ANSWER ANY FIVE OUT OF THE FOLLOWING QUESTIONS:

11. Explain in detail security approaches.
12. List out the principles of security and explain in detail.
13. Discuss plain text and cipher text with example.

14. Discuss caesar cipher and mono-alphabetic cipher of substitution techniques in detail.
15. Explain in detail simple columnar Transposition Techniques with example.
16. Explain in detail Encryption and Decryption.
17. Discuss Homophonic substitution and Polygram substitution technique in detail.
18. Explain briefly security models and security management practices.

(A-4)

(FOR THE CANDIDTES ADMITTED

15UIT621

DURING THE ACADEMIC YEAR 2015 ONLY)

REG.NO.:

N.G.M. COLLEGE (AUTONOMOUS): POLLACHI

END-OF-SEMESTER EXAMINATIONS: APRIL/MAY 2018

B.Sc. – INFORMATION TECHNOLOGY

MAXIMUM MARKS: 75

VI - SEMESTER

TIME: 3 HOURS

PART -III

COMPUTER GRAPHICS

SECTION – A

(10 X 1 =10 MARKS)

ANSWER THE FOLLOWING QUESTIONS:

(Multiple Choice Questions)

1. Expand CRT.

- a) Computer Ray Tube b) Computer Relay Tube
c) Cathode Ray Tube d) All the above

2. The Cartesian Slope-intercept equation for a straight line is _____

- a) $y=m.x+b$ b) $y=x+b.m$ c) $y=m(x+b)$ d) $y=x(m+b)$

3. A _____ is a Transformation that produces a mirror image of an object.

- a) Refraction b) Shearing c) Movement d) Reflection

4. _____ device present two views of a scene.

- a) 3D b) Graphical c) Stereoscopic d) Projection

5. An extension of depth-buffer method is the _____ method.

- a) Z-buffer b) A-buffer c) X-buffer d) Y-buffer

SHORT ANSWERS:

6. What is resolution?

7. What is tiling pattern?

8. Define viewport.

9. Which transformation modifies the shape of an object?

10. What is the shape of CIE Chromaticity diagram?

SECTION – B

(5 X 5 =25 MARKS)

ANSWER EITHER (a) OR (b) IN EACH OF THE FOLLOWING QUESTIONS:

11. a) With a neat diagram, explain the refresh Cathode Ray Tubes.

[OR]

b) Explain the following Flat panel displays:

i) Plasma panel

(3 M)

ii) Thin film electroluminescent display (2 M)

12. a) Explain about DDA Algorithm.
[OR]
b) Discuss about Text Attributes with necessary example.

13. a) Give a note on Translation in 2D Transformations.
[OR]
b) Write a short note on Curve clipping and Text clipping.

14. a) Explain the 3D Graphics packages.
[OR]
b) Write a short note on Scaling in 3D Modeling.

15. a) Explain the term A-Buffer Method.
[OR]
b) Give a brief note on CMY color Model.

SECTION – C

(5 X 8 =40 MARKS)

ANSWER EITHER (a) OR (b) IN EACH OF THE FOLLOWING QUESTIONS:

16. a) Elaborate on the Raster-scan systems.
[OR]
b) Give a detailed note on any four Input devices.
17. a) With suitable diagram, explain Bresenham's Line algorithm.
[OR]
b) Explain the Area-fill attributes in Graphics.
18. a) Describe the 2D Reflection and Shearing transformations.
[OR]
b) Explain the Cohen-Sutherland line clipping procedure with example.
19. a) Explain three dimensional display methods in detail.
[OR]
b) Describe the General 3D Rotations.
20. a) Elucidate Area-subdivision method for hidden surface removal.
[OR]
b) Elaborate on the standard primaries and the chromaticity diagram.

(NO.OF PAGES: 2)

(FOR THE CANDIDATES ADMITTED

15UIT622

DURING THE ACADEMIC YEAR 2015 ONLY)

REG.NO. :

N.G.M.COLLEGE (AUTONOMOUS): POLLACHI

END-OF-SEMESTER EXAMINATIONS: APRIL/MAY-2018

B.Sc. INFORMATION TECHNOLOGY

MAXIMUM MARKS: 75

VI - SEMESTER

TIME: 3 HOURS

PART-III

MOBILE COMPUTING - ELECTIVE II

SECTION-A

(10X1=10 MARKS)

ANSWER THE FOLLOWING QUESTIONS.

(Multiple Choice Questions)

1. The Network Centric Mobile Computing architecture uses _____ architecture.
a) single-tier b) multi-tier c) three-tier d) two-tier
2. A normal Telephone system is called _____.
a) DSDN b) PSTN c) Telephony d) FSDN
3. SMS is sessionless and _____.
a) stateless b) stateful c) dynamic d) anonymous
4. _____ Protocol runs on top of a datagram service and provide a light-weight transaction-oriented protocol.
a) Wireless Application b) Wireless Session
c) Wireless Transaction d) Wireless Network
5. In _____ mode there is no access point or infrastructure.
a) WAN b) infrastructure c) ad hoc d) MAN

SHORT ANSWERS:

6. Define Mobile Computing.
7. What are the components of Voice XML?
8. List the GSM Addresses and Identifiers.
9. What is GPRS?
10. Define Time Hopping.

SECTION-B

(5X5=25 MARKS)

ANSWER EITHER (a) OR (b) IN EACH OF THE FOLLOWING QUESTIONS:

11. a) Write about the different types of networks used by Mobile Computing.
(OR)
b) List any five Mobile Computing Applications.

(CONTD....2)

12. a) Discuss about Telephony Application Programming Interface(TAPI).
(OR)

b) Explain Bluetooth Protocol Stack.

13. a) Explain in detail about GSM Architecture.
(OR)

b) Discuss about the Strengths of SMS.

14. a) Write a note on GPRS and Packet Data Network.
(OR)

b) Explain about Wireless Markup Language.

15. a) Write short notes on CDMA versus GSM.
(OR)

b) Discuss about Mobility in Wireless LAN.

SECTION-C

(5X8=40 MARKS)

ANSWER EITHER (a) OR (b) IN EACH OF THE FOLLOWING QUESTIONS:

16. a) Explain in detail about Mobile Computing.
(OR)

b) Explain in detail about the Three-tier architecture of Mobile Computing.

17. a) Discuss in detail about Multiple Access Procedures.
(OR)

b) Write in detail about RFID.

18. a) Explain in detail about GSM entities.
(OR)

b) Explain the following:

i) SM MT

ii) SM MO

19. a) Explain in detail about GPRS Network Architecture.
(OR)

b) Discuss in detail about MMS Architecture and Transaction flows.

20. a) Explain in detail about IS-95.
(OR)

b) Explain in detail about Wireless LAN Security.

(NO.OF PAGES: 2)

(FOR THE CANDIDATES ADMITTED

15UIT623

DURING THE ACADEMIC YEAR 2015 ONLY)

REG.NO. :

N.G.M.COLLEGE (AUTONOMOUS): POLLACHI

END-OF-SEMESTER EXAMINATIONS: MAY-2018

B.Sc (IT)

MAXIMUM MARKS: 75

VI - SEMESTER

TIME: 3 HOURS

PART-III

MULTIMEDIA TECHNIQUES - ELECTIVE III

SECTION-A

(10X1=10 MARKS)

ANSWER THE FOLLOWING QUESTIONS.

(Multiple Choice Questions)

21. _____ is described as woven combinations of text, graphic art, sound, animation and video elements.
c) Software b) Multimedia c) Hardware d) Network
22. DDE stands for _____.
a) Dynamic Data Embedding b) Digital Data Exchange
c) Dynamic Data Exchange d) Digital Design Exchange
23. A _____ is a simple information matrix describing the individual dots that are smallest elements of resolution on a computer screen.
a) Bitmap b) Vector c) Skinning d) Morphing
24. _____ is an integrated method of adding color to a black-and-white television signal.
a) NTSC b) PAL c) SECAM d) HDTV
25. _____ Systems are used to support public about the facilities offered by organizations such as art galleries, museums, parks, hotels and airports.
a) POI b) POS c) DIP d) IP

SHORT ANSWERS.

26. List any two Communication Devices.
27. What is OCR Software?
28. Define Hypertext.
29. Define Morphing.
30. Define Image Processing.

SECTION-B

(5X5=25 MARKS)

ANSWER EITHER (a) OR (b) IN EACH OF THE FOLLOWING QUESTIONS:

31. a) Explain about the stages of Multimedia Project.

(OR)

d) Write a note on SCSI.

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32. a) Discuss 3D Modeling and Animation tools.

(OR)

b) Write a short note on Linking Multimedia Objects office suites.

33. a) Briefly discuss about MIDI versus Digital Audio.

(OR)

b) Explain in detail about Vector Drawing.

34. a) Discuss about Broadcast Video Standards.

(OR)

b) Explain in detail about Alpha and Beta testing.

35. a) How Multimedia is used in Training? Discuss Briefly.

(OR)

b) Write about Operational Systems.

SECTION-C

(5X8=40 MARKS)

ANSWER EITHER (a) OR (b) IN EACH OF THE FOLLOWING QUESTIONS:

36. a) Explain in detail about Multimedia Team.

(OR)

b) Explain the following:

i) Keyboard ii) Touch Screen iii) Monitor iv) Printer

37. a) Write in detail about Databases and Presentation tools.

(OR)

b) Discuss in detail about the types of Authoring Tools.

38. a) Illustrate the concept of “Using Text in Multimedia”.

(OR)

b) Explain in detail about Image File Formats.

39. a) Write in detail about the Principles of Animation.

(OR)

b) Describe in detail the Designing Phase of Multimedia Project.

40. a) How Multimedia is used in Information and Sales? Explain.

(OR)

b) Explain about the use of Multimedia in Office.
