

(FOR THE CANDIDATES ADMITTED
DURING THE ACADEMIC YEARS
2015 ONLY)

(NO.OF.PAGES: 2)

15UCT623

REG.NO

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

END – OF – SEMESTER EXAMINATIONS: APRIL/MAY 2018

B.SC COMPUTER TECHNOLOGY

MAXIMUM MARKS: 75

SEMESTER: VI

TIME: 3 HOURS

PART – III

J2EE TECHNOLOGIES

SECTION – A (10 X 1 = 10 MARKS)

ANSWER THE FOLLOWING QUESTIONS.

MULTIPLE CHOICE QUESTIONS

1. A component that displays an icon
a) Label b) Scroll c) Button d) all of the above
2. What type of servlets use these methods doGet(), doPost(),doHead, doDelete(), doTrace()?
a) Generic Servlets b) HttpServlets c) All of the above d. None of the above
3. Which JDBC driver types is the JDBC-ODBC Bridge?
a) Type 1 b) Type 2 c) Type 3 d) Type 4
4. JSP provides _____ implicit objects by default.
a) 5 b) 6 c) 9 d) 3
5. What is not true of a java bean?
a) There are no public instance variables
b) All persistent values are accessed using getxxx and setxxx methods
c) It may have many constructors as necessary
d) All of the above are true of a Java bean.

SHORT ANSWERS

6. Difference between a Scrollbar and a Scroll Pane?
7. How are many objects of a servlet created?
8. What is the bridge of ODBC-JDBC?
9. What is the full form of JSP?
10. How can bean communicate with object?

SECTION – B

(5 X 5 = 25 MARKS)

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

11. a) Describe JApplet.

[OR]

- b) Brief about Text Fields with an example.

(CONTD....2)

12. a) What is java Servlet?

[OR]

b) Explain java Servlet Architecture.

13. a) What is Servlet chain?

[OR]

b) Explain JDBC.

14. a) What are java server pages? Why do we use JSP?

[OR]

b) What are the attributes associated with the page directive?

15. a) Describe java bean.

[OR]

b) Explain application builder tools.

SECTION – C (5 X 8 = 40 MARKS)

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

16. a) Discuss combo boxes with examples.

[OR]

b) Write a note on trees.

17. a) Explain building and installing the basic Servlet.

[OR]

b) Describe the life cycle of a Servlet.

18. a) Write short notes on i) Thin Driver ii) Network protocol driver

[OR]

b) Write a java program which illustrates the concept of Servlet chaining.

19. a) Write a program using script tag to get the username from user.

[OR]

b) Illustrate session tracking techniques.

20. a) How to create a JAR file?

[OR]

b) Describe how to develop a simple bean and connect it to other component via BDK.

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15 UCT 624

REG.NO

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

SUPPLEMENTARY EXAMINATION: JUNE 2018

B.SC COMPUTER TECHNOLOGY

MAXIMUM MARKS: 75

VI SEMESTER

TIME: 3 HOURS

PART – III

EMBEDDED SYSTEMS (ELECTIVE-II)

SECTION – A (10 X 1 = 10 MARKS)

ANSWER THE FOLLOWING QUESTIONS.

MULTIPLE CHOICE QUESTIONS

1. An embedded system is designed keeping in view _____ constraints
a) 2 b) 3 c) 4 d) 1
2. Using a _____ protocol allows a handheld computer
a) Wireless protocol b) Intranet c) Parallel IO d) Serial IO
3. A _____ device performs timing functions as well as counting functions
a) Transceiver b) Timer c) Voice-Data-Fax d) All of the above
4. A _____ can receive multiple tokens
a) Transition b) State c) Event d) Output
5. There are _____ types of I/O operations
a) 3 b) 1 c) 4 d) 2

SHORT ANSWERS

6. Define Linker
7. What is parallel port?
8. Define interrupt vector
9. What is DFM?
10. What is kernel?

SECTION – B

(5 X 5 = 25 MARKS)

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

11. a) What is Embedded System?

[OR]

- b) Discuss the Classifications of Embedded systems

(CONTD....2)

12. a) Describe watch dog timer

[OR]

- b) Discuss Synchronous communication system

13. a) Explain Device drivers

[OR]

- b) Discuss the virtual device drivers

14. a) Brief on program models

[OR]

- b) Describe Assembly language programming

15. a) Write a note on i) Process ii) Process control block

[OR]

- b) Write a short note on I/O subsystems

SECTION – C

(5 X 8 = 40 MARKS)

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

16. a) Write a note on i) Micro processor ii) Single purpose processor

[OR]

- b) Explain the examples of embedded systems

17. a) Brief about I/O types and examples

[OR]

- b) Explain timer cum counting devices

18. a) Discuss Interrupt vector

[OR]

- b) Describe parallel port drivers in a system

19. a) Write a note on FSM state table with example

[OR]

- b) Explain multiprocessor system

20. a) Brief on OS services

[OR]

- b) Explain Preemptive scheduling model

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(NO.OF.PAGES: 2)

15UCT625

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

END – OF – SEMESTER EXAMINATIONS: APRIL/MAY 2018

B.SC - COMPUTER TECHNOLOGY

MAXIMUM MARKS: 75

VI SEMESTER

TIME: 3 HOURS

PART – III

INFORMATION SECURITY (ELECTIVE – III)

SECTION – A (10 X 1 = 10 MARKS)

ANSWER THE FOLLOWING QUESTIONS.

MULTIPLE CHOICE QUESTIONS

1. _____ causes loss of message confidentiality.
a)Authentication b)Interruption c)Integrity d) None of the above
2. _____ is used in chaining mode.
a) Block ciphers b) ciphers c) Plaintext d) None of the above
3. _____ can issue digital certificates.
a) Government b) CA c) Authority d) None of the above.
4. _____ is the father of PGP.
a)Kennedy b)Phil Zimmerman c)Denis d) None of the above.
5. _____ & _____ is Java cryptography framework.
a) JCP & JCB b) JCA & JCE c) JSP & ASP d) None of the above.

SHORT ANSWERS.

6. Expand ACI.
7. Expand DES.
8. Define CA.
9. List down the four security options allowed by PGP.
10. Define VPN.

SECTION – B (5 X 5 = 25 MARKS)

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

11. a) Write a note on Substitution Techniques.

(OR)

b) Write a note on Rail fence Technique.

12. a) Brief note on objectives of Blow fish .

(OR)

b) Discuss the Cipher block chaining mode.

(CONTD....2)

13. a) Write a note on CA.
(OR)
b) Write a note on Active web pages.
14. a) Write a note on One way Authentication
(OR)
b) Discuss briefly KDC.
15. a) Explain the types of firewall.
(OR)
b) Write about the advantages of IPSEC?

SECTION – C (5 X 8 = 40 MARKS)

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

16. a) Describe Diffie Hellman Key in detail.
(OR)
b) Explain the Transposition Techniques in detail.
17. a) Explain the RSA algorithm with an example.
(OR)
b) Explain Message authentication code in detail.
18. a) Explain the steps in creating certificates
(OR)
b) Explain in detail the Secure Electronic Transaction (SET).
19. a) Describe the Biometric Authentication.
(OR)
b) Explain in detail Passwords.
20. a) Explain the user and data privileges.
(OR)
b) Explain the IP security in detail.

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16 UCT 412

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

END – OF – SEMESTER EXAMINATIONS: APRIL/MAY 2018

B.SC - COMPUTER TECHNOLOGY

MAXIMUM MARKS: 75

SEMESTER: IV

TIME: 3 HOURS

PART – III

OPEN SOURCE TECHNOLOGIES(PHP & My SQL)

SECTION – A (10 X 1 = 10 MARKS)

ANSWER THE FOLLOWING QUESTIONS.

MULTIPLE CHOICE QUESTIONS.

1. PHP files have a default file extension of
a) html b)xml c) php d)ph
2. Which of the looping statements is/are supported by PHP?
i) for loop ii) while loop iii)do-while loop iv) foreach loop
a) (i) and (ii) b)(i), (ii) and (iii) c)All of the mentioned
d)None of the mentioned
3. Which of the following PHP statements will output Hello World on the screen?
(i) echo ("Hello World"); (ii) print ("Hello World");
(iii) printf ("Hello World"); (iv) sprintf ("Hello World");
a) (i) and (ii) b) (i), (ii) and (iii)
c) All of the mentioned d) (i), (ii) and (iv)
4. Which one of the following databases has PHP supported almost since the beginning?
a) Oracle Database b) SQL c) SQL+ d) MySQL
5. Which one of the following statements is used to create a table?
a) CREATE TABLE table_name (column_name column_type);
b) CREATE table_name (column_type column_name);
c) CREATE table_name (column_name column_type);
d) CREATE TABLE table_name (column_type column_name);

SHORT ANSWERS

6. PHP stands for _____.
7. Define an array.
8. Define a class.
9. Why error handling is needed.
10. Define a cookie.

SECTION – B (5 X 5 = 25 MARKS)

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

11. a) Write down a simple PHP Script.

(OR)

- b) Write about data types in PHP.

(CONTD....2)

12. a) Write down a simple conditional statement in PHP.

(OR)

b) Write about arrays with forms in PHP.

13. a) Write about user defined functions in PHP.

(OR)

b) Explain about reading and Writing files in PHP.

14. a) Explain with example for creating & populating a database in SQL.

(OR)

b) Explain about handling errors.

15. a) Write about sessions and headers .

(OR)

b) Explain about Scripts.

SECTION – C

(5 X 8 = 40 MARKS)

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

16. a) Discuss about Variables & operators in PHP .

(OR)

b) Create your own PHP Script (a sample application)

17. a) Discuss about repeating actions with loops in PHP .

(OR)

b) Discuss about working with dates & times in PHP.

18. a) Discuss about functions & Classes in PHP .

(OR)

b) Discuss about working with files & directories in PHP.

19. a) Discuss about adding and modifying data in SQL .

(OR)

b) Discuss about the advantages of MYSQL database over others.

20. a) Discuss in brief about Sessions & headers .

(OR)

b) Discuss about Validating, login & debugging errors.

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REG.NO

NGM COLLEGE (AUTONOMOUS) POLLACHI

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

B.SC – COMPUTER TECHNOLOGY

MAXIMUM MARKS: 75

IV SEMESTER

TIME: 3 HOURS

PART III

RELATIONAL DATABASE MANAGEMENT SYSTEM

SECTION - A (10 X 1 = 10 MARKS)

ANSWER THE FOLLOWING QUESTIONS

MULTIPLE CHOICE QUESTIONS

- 1) You can add a row using SQL in a database with which of the following?
a) Add b) Create c) Insert d) Make
- 2) _____ returns rows when there is a match in both tables.
a) Inner join b) Left join c) Right join d) Self join
- 3) The _____ attribute returns a TRUE if the last fetch returned a row
a) % not found b) %found c) %isopen d) %rowcount
- 4) _____ ensures that a column cannot have NULL value.
a) Not null Constraint b) Default constraint c) Unique constraint d) All of the above
- 5) _____ Meeting all requirements of the first normal form
a) (1NF) b) (1NF) c) (3NF) d) (4NF)

SHORT ANSWERS

- 6) DCL stands for?
- 7) Syntax to Get all employee details from the employee table
- 8) What is explicit cursor?
- 9) What is a trigger in PLSQL?
- 10) Define Outer joins.

SECTION – B

(5 X 5 = 25 MARKS)

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

11. a) Write short notes on i) union ii) intersection.

[OR]

b) Describe relationships.

12. a) Explain client/server data base.

[OR]

b) Write a short note on altering an existing table.

(CONTD....2)

13. a) Discuss deleting existing Rows/Records.

[OR]

- b) Brief about Distinct function.

14. a) Explain Union all with examples.

[OR]

- b) Discuss PL/SQL block structure.

15. a) Explain cursor for Loop.

[OR]

- b) Describe how to create a PL/SQL records.

SECTION –C

(5 X 8=40 MARKS)

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

16. a) Discuss NORMAL forms with examples.

[OR]

- b) Describe Dependency diagram.

17. a) Explain displaying table with examples.

[OR]

- b) Discuss data types with examples.

18. a) Detail built in functions.

[OR]

- b) Explain restricting data with a where clause with examples.

19. a) Discuss variable declaration.

[OR]

- b) Brief control structures with suitable example.

20. a) Explain/SQL Varrays.

[OR]

- b) describe before Triggers.

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DURING THE ACADEMIC YEAR 2017 ONLY)

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

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

B.Sc. – COMPUTER TECHNOLOGY

MAXIMUM MARKS: 75

II SEMESTER

TIME: 3 HOURS

PART - III

DISCRETE MATHEMATICS

SECTION – A

(10 X 1 = 10 MARKS)

ANSWER THE FOLLOWING QUESTIONS.

MULTIPLE CHOICE QUESTIONS

1. Roster method is also known as _____
a) Selection method b) Tabular Method c) Non-selection method d) Finite method
2. Propositional calculus also called _____
a) Statement b) Declarative c) Interrogative d) Imperative
3. The relation '=' defined on a set A is said to be _____ proposed for all $a, b \in A$
a) Total order b) Partial order c) symmetric d) Anti symmetric
4. The finite set of vertices V also called _____
a) points b) edges c) lines d) arcs
5. A graph with a closed path that includes every vertex exactly once is called a _____
a) Euler b) Hamiltonian c) planar d) sub graph

SHORT ANSWERS

6. Define a set.
7. What is compound preposition?
8. Define a function.
9. Explain the indegree.
10. Define a Eulerian graph.

SECTION – B

(5 X 5 = 25 MARKS)

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

11. a) List out the different types of set Description with neat example.

(OR)

b) Among the first 500 Positive integers

i) Determine the integers which are neither divisible by 5, 7, nor 9.

ii) Determine the integers which are neither divisible by 5 but not by 7 and 9.

(CONTD.....2)

12. a) Write short notes on conjunction

(OR)

- b) If p and q are two statements then show that $p \oplus q$ is equivalent to $(P \vee \sim Q) \vee (\sim P \wedge Q)$

13. a) Explain about the partial order relations with neat example.

(OR)

- b) if A, B, C, D are four sets and F, G and H are three functions (mapping) defined as

$$f: A \rightarrow B; g: B \rightarrow C; h: C \rightarrow A$$

Then prove that $(h \circ g) \circ f = h \circ (g \circ f)$

14. a) Draw a diagram for each of the following graph $G(V, E)$

i) $V = \{a, b, c, d, e, f\}$ $E = \{(a, d), (a, f), (b, c), (b, f), (c, e)\}$

ii) $V = \{a, b, c, d, e\}$ $E = \{(a, a), (b, c), (b, d), (c, b), (e, a), (e, d)\}$

iii) $V = \{a, b, c, d, e\}$ $E = \{(a, d), (b, c), (b, d), (b, e), (d, e), (c, e)\}$

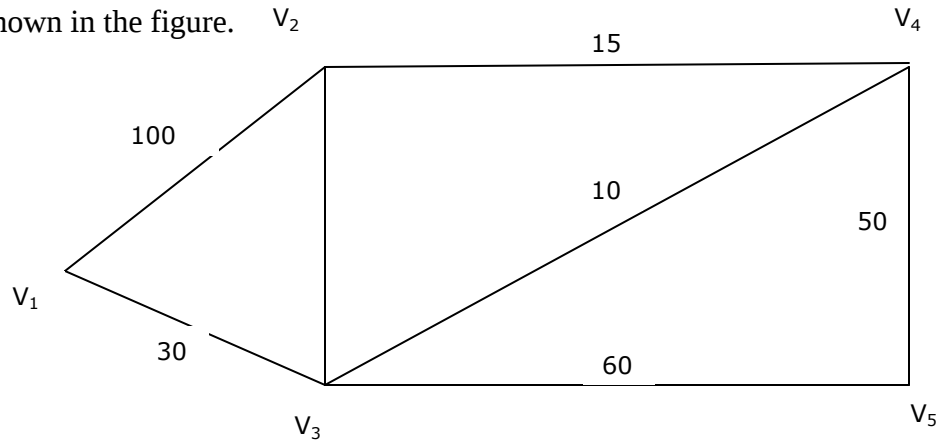
(OR)

- b) Write short notes on Homeomorphic graphs with neat diagram.

15. a) Explain the adjacency matrix with neat diagram.

(OR)

- b) Apply dijkstra algorithm to find the shortest path from vertex v_1 to v_5 in the graph shown in the figure.



SECTION – C

(4X10=40 MARKS)

ANSWER ANY 4 QUESTIONS OUT OF 6:

*16TH QUESTION IS COMPULSORY.

16. Discuss in detail set operations and law of set theory with neat example.

17. Explain in detail different types of sets with neat example.

(CONTD....3)

18. With the help of truth table

P	Q	$P \wedge Q$
T	T	T
F	T	F
T	F	F
F	F	T

P	Q	$P \vee Q$
T	T	T
F	T	T
T	F	T
F	F	F

i) $P \vee Q = \sim(\sim P \wedge \sim Q)$

ii) $\sim(P \vee Q) = \sim(P \wedge \sim Q)$

iii) $\sim(P \wedge Q) = \sim P \vee \sim Q$

19. Explain in detail the different types of functions with example.

20. Describe briefly the types of graphs with neat diagram.

21. Explain the following

i) Shortest path in a weighted graph

ii) Shortest path in a unweighted graph

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(FOR THE CANDIDATES ADMITTED

17UCT204

DURING THE ACADEMIC YEAR 20 17 ONLY)

REG.NO

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

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

B.SC – COMPUTER TECHNOLOGY

MAXIMUM MARKS: 75

II SEMESTER

TIME: 3 HOURS

PART - III

OBJECT ORIENTED PROGRAMMING WITH C ++

SECTION – A

(10 X 1 = 10 MARKS)

ANSWER THE FOLLOWING QUESTIONS.

MULTIPLE CHOICE QUESTIONS

1. Which is basic runtime entity?
a) Application b) Object c) Algorithm d) Appliance
2. Which can also can return a reference?
a) Function b) Stack c) Graph d) Array
3. Which is called to represent an object?
a) Algorithm b) Unique keyword c) Array d) String
4. Which has default arguments like functions?
a) File b) Program c) Graph d) Constructor
5. What is a sequence of bytes?
a) Stream b) Node c) Keyword d) Control

SHORT ANSWERS.

6. Define message passing.
7. What are static data members?
8. Define destructors.
9. What is derived class?
10. Label file.

SECTION – B

(5 X 5 = 25 MARKS)

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

11. a) Illustrate features of object oriented programming.

(OR)

- b) Classify scope resolution operators.

(CONTD.....2)

12. a) Contrast - call by reference and return by reference .

(OR)

- b) Explain static data members with example.

13. a) Illustrate on multiple constructors in a class.

(OR)

- b) Explain rules of overloading operators.

14. a) Illustrate on this pointer with example.

(OR)

- b) Classify on pure virtual functions.

15. a) Relate the concept of C++ streams and it's classes.

(OR)

- b) Outline notes on file modes with example.

SECTION – C

(4X10=40 MARKS)

ANSWER ANY FOUR OUT OF SIX QUESTIONS:

(16TH QUESTION IS COMPULSORY AND ANSWER ANY THREE QUESTIONS FROM Q.NO: 17 TO 21)

16. Organize about control structures with example.
17. List out tokens and keywords with examples.
18. Classify on arrays within a class with suitable program.
19. Examine overloading unary operators.
20. Translate single inheritance.
21. Summarize opening and closing a file with an apt example.

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17UCT205

DURING THE ACADEMIC YEAR 20 17 ONLY)

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

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

B.SC – COMPUTER TECNOLOGY

MAXIMUM MARKS: 75

II SEMESTER

TIME: 3 HOURS

PART - III

DATA STRUCTURES AND ALGORITHMS

SECTION – A

(10 X 1 = 10 MARKS)

ANSWER THE FOLLOWING QUESTIONS.

MULTIPLE CHOICE QUESTIONS

1. Which may be defined a finite sequence of instructions with meanings?
a) application b) object c) algorithm d) appliance
2. What is used to implement a common and basic method to make use of another fundamental data structure?
a) stack b) queue c) graph d) array
3. Which linked list test has its last node carrying a null pointer?
a) doubly b) singly c) Insert d) strongly
4. Which definition makes reference to unordered lists of vertices as edges?
a) pointer b) program c) graph d) node
5. What is not a stable sort?
a) merge b) bubble c) heap d) quick

SHORT ANSWERS.

6. Define ordered list.
7. What is queue?
8. Define doubly linked list.
9. What is file?
10. Label Trees.

SECTION – B

(5 X 5 = 25 MARKS)

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

11. a) Illustrate on the steps involved in the development of an algorithm ordered lists.

(OR)

- b) Classify arrays with suitable example.

(CONTD.....2)

12. a) Summarize stack with example .
(OR)
b) Explain dequeue.
13. a) Illustrate multiple linked lists with apt example .
(OR)
b) Explain linked list with example.
14. a) Illustrate trees and brief about basic terminologies.
(OR)
b) Classify minimum cost spanning trees.
15. a) Relate the concept of file and how it is organized.
(OR)
b) Outline notes on Binary search with example.

SECTION - C (4 X 10 = 40 MARKS)

ANSWER ANY FOUR OUT OF SIX QUESTIONS.

(16TH QUESTION IS COMPULSORY AND ANSWER ANY THREE QUESTIONS FROM Q.NO: 17 TO 21)

16. Organize abstract data types with example.
17. List out the structure and properties of algorithms.
18. Classify stack operations with suitable program.
19. Examine doubly linked list with example.
20. Translate on representation of trees.
21. Summarize quick sort with apt example.

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16UCT414

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

END – OF – SEMESTER EXAMINATIONS: APRIL/MAY 2018

B.SC COMPUTER TECHNOLOGY

MAXIMUM MARKS: 75

IV SEMESTER

TIME: 3 HOURS

PART – III

DATA COMMUNICATION AND NETWORKS

SECTION – A (10 X 1 = 10 MARKS)

ANSWER THE FOLLOWING QUESTIONS.

MULTIPLE CHOICE QUESTIONS

1. Information can be represented as a sequence of _____
a. Byte patterns b. characters c. bit patterns d. images
2. _____ refers to the physical or logical arrangement of a network.
a. Topology b. mode of operation c. data flow d. none of the above
3. LAN refers to _____
a. Local area network b. line area network c. live area network d. none of the above
4. Expand TCP _____
a. Transmission control protocol b. transfer control protocol
c. translation control protocol d. none of the above
5. DNS refers to _____
a. Data name system b. domain name system
c. distance name system d. none of the above

SHORT ANSWERS

6. Define digital signals.
7. What is a tree topology.
8. Expand the term OSI.
9. Define ARP.
10. Define UDP.

SECTION – B

(5 X 5 = 25 MARKS)

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

11. a) Explain analog signals with its diagram.

(OR)

- b) Explain digital signals with its diagram.

(CONTD....2)

12. a) Brief error detection codes.

(OR)

b) Explain circuit switching with its diagram.

13. a) Brief functions of application layer in OSI layers.

(OR)

b) Elucidate wide area network.

14. a) Brief the basics of internet.

(OR)

b) Explain the history of internet.

15. a) Brief electronic mail.

(OR)

b) State the difference between UDP and TCP.

SECTION – C (5 X 8 = 40 MARKS)

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

16. a) Write short notes on data communication.

(OR)

b) Brief the digital to analog transmission.

17. a) Brief mesh & star topologies.

(OR)

b) Explain the functions of routing algorithms.

18. a) Brief metropolitan area network.

(OR)

b) Brief frame relay in ISDN.

19. a) Explain TCP/IP model.

(OR)

b) Brief address resolution protocol.

20. a) Explain user datagram protocol.

(OR)

b) Brief domain name system.

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16UCT4A4

REG.NO

TIME: 3 HOURS

(CONTD....2)

12. a) Elucidate 8086 instruction group

(OR)

- b) Write a program to find the largest number in the data array.

13. a) Explain virtual memory.

(OR)

- b) Brief interrupts and exceptions.

14. a) Explain the operating modes of 8255.

(OR)

- b) Explain alpha microprocessor.

15. a) What is sample & hold circuit -LF 398? Explain.

(OR)

- b) Draw a flow chart for temperature display & monitoring.

SECTION – C

(5 X 8 = 40 MARKS)

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

16. a) Brief the evolution of microprocessor.

(OR)

- b) Explain bit-slice processor.

17. a) Explain the ALP program to arrange the numbers in descending order.

(OR)

- b) Elucidate Multibyte addition.

18. a) Write short notes on GATES.

(OR)

- b) Write short notes on output devices.

19. a) Draw the block diagram of Pentium microprocessor.

(OR)

- b) Explain AMD microprocessor.

20. a) Brief Bipolar to unipolar converter.

(OR)

- b) Explain the addressing modes in 68000.
