

NOVEMBER 2018

(NO. OF PAGES: 2)

(FOR THE CANDIDATES ADMITTED

18 UIT 101

DURING THE ACADEMIC YEAR 2018 ONLY)

REG.NO. :

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

END-OF-SEMESTER EXAMINATIONS: NOVEMBER 2018

B.Sc. I.T

MAXIMUM MARKS: 75

I - SEMESTER

TIME: 3 HOURS

PART – III

PROGRAMMING IN 'C'

SECTION – A

(10 X 1 = 10 MARKS)

ANSWER THE FOLLOWING QUESTIONS:

(Multiple Choice Questions)

1. Instructions are formed by using symbols and words according to some rules known as _____.
a. Syntax rule b. Program rule
c. Structure rule d. Instruction rule
2. The _____ is an entry controlled loop.
a. Do While b. While c. Switch d. None of the above
3. The function _____ allocates requested size of bytes and returns a pointer to first byte of allocated space.
a. calloc b. malloc c. realloc d. None of the above
4. _____ is a collection of distinct data items under one name in which the items share the same storage.
a. Union b. Array c. Structure d. None of the above
5. _____ function is used to move the file position to a desired location within a file.
a. ftell() b. fgo() c. fseek() d. fmove()

SHORT ANSWERS:

6. Define Algorithm.
7. How does the break statement work?
8. Define array.
9. Define call by reference.
10. What is the use of pre-processor?

SECTION - B

(5 X 5 = 25 MARKS)

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

11. a. Explain the Structure of C Program.
(OR)
b. Explain about Constants and its types.
12. a. Briefly explain about While Loop and Do While Loop with an example.
(OR)
b. Write a C program for Biggest among three numbers.
13. a. Discuss about one-dimensional array with an example.

(OR)

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(18 UIT 101)

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- b. Explain the following:
- i. Pointers and Arrays
 - ii. Array of pointers
14. a. Differentiate Call by value & Call by Reference with Suitable Examples.

(OR)

- b. Discuss about Structure Concept in C.
15. a. Discuss about Low level disk I/O files.

(OR)

- b. What do you know about command line arguments?

SECTION - C

(4 X 10 = 40 MARKS)

ANSWER ANY FOUR OUT OF SIX QUESTIONS:

(16th question is compulsory and answer any three questions from qn: 17 to 21)

- 16. List out the types of Operators in C and explain them.
- 17. Discuss about different Data types in C with an examples.
- 18. Briefly explain about Types of If Statement.
- 19. Explain about String Handling functions with suitable examples.
- 20. Discuss about Category of functions in C.
- 21. Explain about Pre-processor in detail.

(A-4)

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18 UIT 102

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END-OF-SEMESTER EXAMINATIONS: NOVEMBER 2018

B.Sc. I.T

MAXIMUM MARKS: 75

I - SEMESTER

TIME: 3 HOURS

PART – III

COMPUTER SYSTEM ARCHITECTURE

SECTION – A

(10 X 1 = 10 MARKS)

ANSWER THE FOLLOWING QUESTIONS:

(Multiple Choice Questions)

1. Register used as a working area in CPU is-----.
a) Program Counter b) instruction registers
c) accumulator d) instruction decoder
2. In stack organization the insertion operation is known as-----.
a) pop b) push c) add d) delete
3. In DMA transfers, the required signals and addresses are given by the -----.
a) Processor b) Device driver c) DMA controllers d) The program
itself
4. The computer architecture aimed at reducing the time of execution of instructions is -----

a) CISC b) RISC c) ISA d) ULTRA
SPARC
5. Write Through technique is used in ----- memory for updating the data.
a) Main b) Auxiliary c) Cache d) RAM

SHORT ANSWERS:

6. Describe Interrupt.
7. What is Stack Pointer?
8. Describe Peripheral.
9. Define vector processing.
10. What is Virtual memory?

SECTION – B

(5 X 5 = 25 MARKS)

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

11. a) Write notes on instruction code.
(OR)
b) Explain about instruction cycle.
12. a) Discuss - Data transfer Instructions.
(OR)
b) Infer about stack organization with neat diagram.

(CONTD....2)
(18 UIT 102)

13. a) Discuss about Input/output versus Memory Bus.

(OR)

b) Write notes on CPO-IOP Communication.

14. a) Discuss on Arithmetic Pipeline with example.

(OR)

b) Illustrate about RISC pipeline.

15. a) Write short notes on Associate Memory page table.

(OR)

b) Discuss about Magnetic Disks.

SECTION – C

(4 X 10 = 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. Discuss about the Memory Reference Instructions.

17. Classify addressing modes.

18. Sketch a Block diagram of General Register Organization and explain.

19. Discuss on Peripheral Devices with examples.

20. Explain on Array Processors.

21. Discuss about Cache Memory

(A-4)

(NO. OF PAGES: 3)

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18 UIT 1A1

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B.Sc. I.T

MAXIMUM MARKS: 75

I - SEMESTER

TIME: 3 HOURS

PART – III

STATISTICAL METHODS

SECTION – A

(10 X 1 = 10 MARKS)

ANSWER THE FOLLOWING QUESTIONS:

(Multiple Choice Questions)

- Which of the following is the measure of central tendency?
a) Standard deviation b) Variance c) Mean d) Range
- $\frac{Q_3 - Q_1}{2}$ is the formula of _____.
a) Range b) Standard deviation c) Mean deviation d) Quartile deviation
- _____ is the measure of the average relationship between two or more variables.
a) Correlation b) Regression c) Rank Correlation d) Range
- When a die is tossed, what is the probability of getting an even number? _____.
a) $\frac{1}{2}$ b) $\frac{1}{3}$ c) $\frac{2}{3}$ d) $\frac{1}{6}$
- The χ^2 test is defined as _____.
a) $\chi^2 = \sum \frac{O-E}{E}$ b) $\chi^2 = \sum \frac{O+E}{E}$ c) $\chi^2 = \sum \frac{(O-E)^2}{E}$ d) $\chi^2 = \sum \frac{(O+E)^2}{E}$

SHORT ANSWERS:

- Write the formula of Harmonic mean for discrete series.
- Write the formula for Coefficient of Variation.
- Write formula for Karl Pearson's Coefficient of correlation.
- Define Permutation.
- What is standard error?

SECTION – B

(5 X 5 = 25 MARKS)

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

- a) (i) If the mean and median of a moderately asymmetrical series are 26.8 and 27.9 respectively, What would be its most probable mode?
(ii) In a moderately asymmetrical distribution, the values of mode and mean are 32.1 and 35.4 respectively. Find the median value.

(Or)

b) Calculate H.M from the following data.

Size of items	6	7	8	9	10	11
Frequency	4	6	9	5	2	8

- a) Find the Standard deviation:

Marks	10	20	30	40	50	60
No Of Students	8	12	20	10	7	3

/2/

(Or)

- b) Calculate mean deviation from mean for the following data.
100,150,200,250,360,490,500,600,671
Also calculate coefficient of mean deviation.

13. a) A computer while calculating correlation coefficient between two variables X and Y from 25 pairs of observations obtained the following results:

$$N=25; \sum X = 125; \sum Y = 100; \sum X^2 = 650; \sum Y^2 = 460; \sum XY = 508$$

It was, however, discovered at the time of checking that two pairs of observations were not correctly copied. They were taken as (6,14) and (8,6) while the correct values were (8,12) and (6,8). Prove that the correct values of the correlation coefficient should be $\frac{2}{3}$.

(Or)

- b) Calculate Pearson's rank correlation coefficient for the following:

Mathematics	85	60	73	40	90
Statistics	93	75	65	50	80

14. a) Discuss the following

i) Addition theorem($2\frac{1}{2} m$)

ii) Multiplication theorem($2\frac{1}{2} m$)

(Or)

- b) Two cards are drawn from a pack of cards at random. What is the probability that it will be
(i) a king and a queen (ii) two kings?

15. a) Write brief note on Null and Alternative hypothesis.

(Or)

- b) A company manufacturing electric light bulbs claims that the average life of its bulbs is 1600 shours. The average life and standard deviation of a random sample of 100 such bulbs were 1570 hours and 120 hours respectively. Should we accept the claim of the company?

SECTION – C

(4 × 10 = 40 MARKS)

ANSWER ANY FOUR OUT OF SIX QUESTIONS

(16th question is compulsory and answer any three questions from qn: 17 to 21)

16. Calculate the arithmetic mean and mode for the following:

Weight (in gms.)	No of mangoes	Weight (in gms.)	No of mangoes
410 - 419	14	450 - 459	45
420 - 429	20	460 - 469	18
430 - 439	42	470 - 479	7
440 - 449	54		

17. Compute median, quartile one and quartile three for the following data

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Values	Frequency	Values	frequency
4 – 6	2	18 – 20	10
6 – 8	5	20 - 22	7
8 – 10	4	22 - 24	6
10 – 12	11	24 - 26	4
12 - 14	11	26 – 28	3
14 - 16	11	28 – 30	1
16 – 18	13		

18. Calculate (i) Range (ii) semi-inter quartile (iii) coefficient of QD for the following

Wages(Rs.)	30 – 32	32 – 34	34 – 36	36 – 38	38 – 40	40 – 42	42 - 44
Labourers	12	18	16	14	12	8	6

19. Calculate coefficient of correlation for the following data

X	12	9	8	10	11	13	7
Y	14	8	6	9	11	12	3

20. Tickets are numbered from 1 to 100. They are well shuffled and a ticket is drawn at random. What is the probability that the drawn ticket has:

- (a) An even number,
- (b) A number 5 or a multiple of 5,
- (c) A number which is greater than 75,
- (d) A number which is a square?

21. In a certain sample of 2000 families, 1400 families are consumers of tea. Out of 1800 Hindu families, 1236 families consume tea. Use χ^2 test and state whether there is any significant difference between consumption of tea among Hindu and non-Hindu families.

(A-4)

(NO. OF PAGES: 2)

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B.Sc. I.T

MAXIMUM MARKS: 75

III - SEMESTER

TIME: 3 HOURS

PART – III

OPERATING SYSTEMS

SECTION – A

(10 X 1 = 10

MARKS)

ANSWER THE FOLLOWING QUESTIONS:

(Multiple Choice Questions)

1. Run time support system is system that is provided by _____.
 - a) System programs
 - b) System calls interface
 - c) Circuits
 - d) Chips
2. The IPC stands for _____.
 - a) Inter Program Communication
 - b) Inter Procedure Communication
 - c) Inter Progression Communication
 - d) Inter Process Communication
3. CPU fetches the instruction from memory according to the value of _____.
 - a) Program counter
 - b) Status register
 - c) Instruction register
 - d) Program status word
4. The special tale in the multitasking operating system is also known as _____ block.
 - a) Task control
 - b) Task access
 - c) Task address
 - d) Task allocating
5. The _____ supports for concealed file compression.
 - a) NTSF
 - b) EFS
 - c) DES
 - d) NTFS

SHORT ANSWERS:

6. Define Operating Systems.
7. What is Interrupt?
8. Define Segments.
9. What is distributed file system (DFS).
10. Define API.

SECTION – B

(5 X 5 = 25

MARKS)

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

11. a) Discuss on layered operating system .
(OR)
b) Write comments on device drivers.
12. a) Explain the process states in process management .
(OR)
b) Discuss about to enable and disable interrupts.

(CONTD....2)

13. b) Write about relocation & address translation in memory system.

(OR)

b) Sketch on allocation algorithm in partitioning.

14. a) Discuss the differences between distributed and parallel processing.

(OR)

b) Explain on bus based interconnections.

15. a) Discuss the important features of NTFS.

(OR)

b) Write short notes on NTFS file structure.

SECTION – C

(4 X 10 = 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. Explain about services of operating systems.

17. Sketch on block and block numbering scheme.

18. Explain on Block diagram of multithreading.

19. Discuss about non contiguous allocation general concepts.

20. Write in detail on distributed file management.

21. Discuss about security mechanisms provided by the windows 2000.

(A-4)

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MAXIMUM MARKS: 75

III - 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. A relation that has no partial dependencies is in which normal form?
a) First b) Second c) Third d) BCNF
2. The constraint that defines a condition that every row must satisfy is _____.
a) value constraint b) unique constraint
c) integrity constraint d) check constraint
3. The statement that adds a new row to the table is _____.
a) SELECT b) INSERT c) UPDATE d) DELETE
4. A pointer to a large block of single-byte character data of fixed width data type is _____.
a) BLOB b) CLOB c) NCLOB d) BFILE
5. The defined code that gets executed/fired when certain actions or event occur is _____.
a) cursor b) trigger c) keywords d) replace

SHORT ANSWERS:

6. What Language is Relational calculus?
7. What is meant by Truncating a table?
8. Name the clause used with the SELETE query to sort rows in a table.
9. What is the command used to modify a column in a table is?
10. What cursor contents are known at compile?

SECTION – B

(5 X 5 = 25 MARKS)

ANSWER EITHER (A) OR (B) IN EACH OF THE FOLLOWING QUESTIONS:

11. a) Write a note on DBMS.

(OR)

- b) Describe dependency diagram with an example.

12. a) Explain SQL statements for command line queries.

(OR)

- b) List the features of SQL *plus.

/2/

(CONTD...2)

(17 UIT 308)

13. a) Describe Sorting.

(OR)

b) Describe any two grouping functions with example each

14. a) Describe on writing comments in PL/SQL.

(OR)

b) Describe while loop statement in PL/SQL.

15. a) Write a note on PL/SQL exceptions.

(OR)

b) How to declare a PL/SQL table? Explain with an example.

SECTION – C

(4 x 10 = 40 MARKS)

ANSWER ANY FOUR OUT OF SIX QUESTIONS:

(16th Question is compulsory and answers any three questions from qn. no. 17 to 21)

16. Explain with examples how to update and delete existing rows/records in a table.

17. Explain E-R model in detail.

18. How to create an oracle table? Explain with an example.

19. Explain GROUP BY clause with its syntax and example.

20. Explain PL/SQL block structure in detail

21. How will you apply database triggers? Also mention the type of triggers with example.

-----X-----

(A-4)

(NO. OF PAGES: 2)

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END-OF-SEMESTER EXAMINATIONS: NOVEMBER 2018

B.Sc. I.T

MAXIMUM MARKS: 75

III - SEMESTER

TIME: 3 HOURS

PART – III

CLIENT/SERVER COMPUTING

SECTION – A

(10 X 1 = 10 MARKS)

ANSWER THE FOLLOWING QUESTIONS:

(Multiple Choice Questions)

1. The system is allowed to migrate from an old mainframe-based system to a new client/server system in small incremental steps in _____.
a) screen scraping b) downsizing c) upsizing d) processing
2. Both the client and the server machines format the display presented to the end user in _____.
a) remote presentation b) distributed presentation
c) remote data d) distributed data
3. The RAID that spreads data and parity information across all the drives in an array is _____.
a) 2 b) 3 c) 4 d) 5
4. Performance and optimization in client/server systems involves _____ components.
a) hardware b) software c) network d) overall system
5. The middleware to create a “single system image “of all the services on the network is _____.
a) NOS b) DFS c) MOM d) RPC

SHORT ANSWERS:

6. Which performance is improved when the speed of the network interface card is improve?
7. What provides the efficiency of the network information?
8. Expand RAID.
9. Name the programs that replicate themselves to destroy data or usurp system resources.
10. What is the administration, control and audit of the organization's security policy called as?

SECTION - B

(5 x 5 = 25 MARKS)

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

11. a) What is client/Server?

(OR)

- b) Explain the benefits of client server

12. a) Describe the hardware impact of client/server.

(OR)

b) Describe the analysis phase of the client/server.

13. a) Describe Asynchronous batch-oriented communications.

(OR)

b) Describe communications servers.

14. a) Describe the monthly maintenance tasks.

(OR)

b) Describe the server performance in client/server.

15. a) Describe the tasks of the security methodology.

(OR)

b) Describe the improvement on networks in client server environment.

SECTION – C

(4 x 10 = 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. Explain MOM in detail.

17. Explain the following models:-

a) Distributed Data

b) Remote Data

18. Explain the steps involved in implementation of client/server.

19. Explain upgrading file servers in detail.

20. Explain maintaining network hardware and software documentation.

21. Explain building a security solution for client/server development.

-----X-----

(A-4)

(NO. OF PAGES: 2)

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17 UIT BA3

DURING THE ACADEMIC YEAR 2017 ONLY)

REG.NO. :

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END-OF-SEMESTER EXAMINATIONS: NOVEMBER 2018

B.Sc. I.T

MAXIMUM MARKS: 75

III - SEMESTER

TIME: 3 HOURS

PART – III

MICROPROCESSOR AND ASSEMBLY LANGUAGE PROGRAMMING

SECTION – A

(10 X 1 = 10 MARKS)

ANSWER THE FOLLOWING QUESTIONS:

(Multiple Choice Questions)

1. The AMD 2901 is a _____.
 - a) Embedded Microprocessor
 - b) Integrated Microprocessor
 - c) Bit – slice Microprocessor
 - d) Array Microprocessor
2. The software used to drive microprocessor-based systems is called _____.
 - a) BASIC interpreter instructions
 - b) firmware
 - c) machine language code
 - d) assembly language
3. The instruction that is used to transfer the data from source operand to destination operand is _____.
 - a) data copy/transfer instruction
 - b) branch instruction
 - c) arithmetic/logical instruction
 - d) string instruction
4. Which is not an alpha microprocessor _____.
 - a) 21064
 - b) 21164
 - c) 21264
 - d) 31164
5. The popular technique that is used in the integration of ADC chips is _____.
 - a) successive approximation
 - b) dual slope integration
 - c) successive approximation and dual slope integration
 - d) none

SHORT ANSWERS:

6. What is a transputer?
7. Give the use of segment override prefix byte?
8. List the operating modes of Intel 486.
9. Name the six condition flags in Pentium processor.
10. How many cores do i3, i5, and i7's have?

SECTION – B

(5 X 5 = 25 MARKS)

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

11. a) Write about vector processors.

(OR)

- b) Explain the Segment registers in detail.

12. a) Explain the addressing mode byte.

(OR)

b) Write a ALP program to arrange a set of numbers in descending order..

(2)

(CONTD.....2)
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13. a) Write a note on Memory organization.

(OR)

b) Discuss the addressing modes of 80486.

14. a) Write a note on Pentium II processors.

(OR)

b) Explain the AMD processors.

15. a) Compare and contrast the Quad , Octa and Penta processors.

(OR)

b) Explain the Bipolar to Unipolar converter.

SECTION – C

(4 X 10 = 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. Explain the pin description of Intel 8086.

17. Explain the different forms of MOV instruction.

18. Discuss the pin and signals of 80486.

19. Explain the Pentium microprocessor in detail.

20. Compare dual and core2duo processors.

(OR)

21. Explain about the measure and control of physical quantities.

(A-4)

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17 UIT 3N1

REG.NO. :

NGM COLLEGE (AUTONOMOUS), POLLACHI

END OF SEMESTER EXAMINATIONS: NOVEMBER 2018

UG DEGREE PROGRAMMES (S.F)

MAXIMUM MARKS: 50

SEMESTER: III

TIME: 2 HOURS

PART-IV: NON MAJOR ELECTIVE - I

INTERNET BASICS

SECTION - A

(10x1=10 MARKS)

ANSWER ALL OF THE FOLLOWING QUESTIONS:

(Multiple Choice Questions)

1. USENET means _____.
a) User Net frame b) User Network c) User Netware d) User Net
2. ISP means _____.
a) Internet System Provider b) Internet Service Provider
c) Intranet System Provider d) Intranet Service Provider
3. The Issue of _____ is a Volatile one that has oth supporters and opponents in the Internet Communities.
a) relationship b) censorship c) honest d) difficult
4. _____, in which the software makes it possible for more than one person to work on a document at the same time.
a) update control b) version control
c) collaborative control d) video conferencing
5. In E-mail .edu means _____.
a) educate b) extension c) education d) edusat

SHORT ANSWERS:

6. Expand ARPANET.
7. Define Allow sharing.
8. Expand W3C.
9. Define Cookies.
10. Define Junk in E-mail.

SECTION – B

(5×8=40 MARKS)

ANSWER ANY FIVE OF THE FOLLOWING QUESTIONS:

11. Explain Internet History.
12. Write the Benefits of Network in Internet.
13. Write about the Issues and Predictions in Internet.
14. Define Freedom of expression in Internet culture.
15. Discuss some on-line business.
16. Describe the Collaborative Computing Applications.
17. Explain the Bookmarks and Miscellaneous web browser in detail.
18. Write the advantages and disadvantages of E-mail.

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(FOR THE CANDIDATES ADMITTED

16 UIT 516

DURING THE ACADEMIC YEAR 2016 ONLY)

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

END-OF-SEMESTER EXAMINATIONS: NOVEMBER 2018

B.Sc. INFORMATION TECHNOLOGY

MAXIMUM MARKS: 75

V - SEMESTER

TIME: 3 HOURS

PART – III

OPEN SOURCE METHODOLOGIES

SECTION – A

(10 X 1 = 10 MARKS)

ANSWER THE FOLLOWING QUESTIONS:

(Multiple Choice Questions)

1. Which command is used to record a user login session in a file _____.
a) macro
b) read
c) script
d) none of the mentioned
2. Which command is used to close the vi editor? _____.
a) q
b) ZZ
c) wq
d) both q and wq
3. In the shell, by default, all variables are considered and stored as _____.
a) string
b) integer
c) character
d) float
4. _____ is a software environment built for mobile devices
a) ios
b) Android
c) Java VM
d) None
5. When you use an Activity in the foreground, the system process that hosts that Activity _____.
a) is placed at the top of the stack
b) is removed from the stack
c) is pushed into the stack
d) None of the mentioned

SHORT ANSWERS:

6. Who are the founders of Red Hat Linux?
7. Give the equivalent keys to copy and paste and cut and paste in Linux.
8. What is a here document?
9. Expand BREW
10. Give the mode constants that are supported with preferences?

SECTION – B

(5 X 5 = 25 MARKS)

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

11. a) Write a note on Red Hat Linux.

(OR)

- b) Explain about the hierarchical file system.

12. a) Explain about the access permission of files and directories.

(OR)

- b) Give an introduction about Vim editor.

(2)

(16UIT516)

13. a) Discuss about the Bourne again shell?

(OR)

b) What does X Window System mean?

14. a) Describe about the Android market?

(OR)

b) Explain how android emulator is used?

15. a) Discuss about Activity lifecycle in detail.

(OR)

b) How to work with Content provider classes.

SECTION – C

(5 X 8 = 40 MARKS)

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

16. a) Explain about pico editor in brief.

(OR)

b) Write short notes on:

- i) Working with directories ii) Links in Linux

17. a) Summarize the basic vi Commands

(OR)

b) Explain in detail about reading and writing files in Linux.

18. a) Discuss in detail about the Control structures of vim.

(OR)

b) Describe the String pattern matching in detail.

19. a) Detail about the four kinds of Android components

(OR)

b) Write a short note on android development environment?

20. a) Discuss about Working with views.

(OR)

b) Explain in detail about using resources.

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(FOR THE CANDIDATES ADMITTED)

16 UIT 517

DURING THE ACADEMIC YEAR 2016 ONLY)

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END-OF-SEMESTER EXAMINATIONS: NOVEMBER 2018

B.Sc. I.T

MAXIMUM MARKS: 75

V - SEMESTER

TIME: 3 HOURS

PART – III

MOBILE COMPUTING

SECTION – A

(10 X 1 = 10

MARKS)

ANSWER THE FOLLOWING QUESTIONS:

(Multiple Choice Questions)

1. _____ can be defined as a computing environment of physical mobility.
a) Mobile Computing b) Application c) Network d) CDMA
2. RFID stands for _____.
a) Rapid Frequency Identification b) Radio Frequency Identification
c) Radio Frequency Integration d) Radar Frequency Identification
3. The GSM Administrative Region is commonly known as _____.
a) PSTN b) PLMN c) CSMA d) CDMA
4. _____ specifies the maximum/peak bit rate and the mean bit rate.
a) Reliability b) Delay c) Throughput d) Service precedence
5. _____ is a local area data network without wires.
a) LAN b) WLAN c) VAN d) MAN

SHORT ANSWERS:

6. List the different types of Middleware components and Gateways.
7. What is FDMA?
8. What are the five main groups of GSM Network?
9. Define MMS.
10. Write any four advantages of Wireless LAN.

SECTION-B

(5X5=25 MARKS)

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

11. a) Write a note on Mobile Computing Functions.
(OR)
b) List any five Mobile Computing Applications.
12. a) Write in detail about Telephony Application Programming Interface.
(OR)
b) Discuss about Java Card.

(CONTD....2)

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13. a) Write a note on GSM Addresses and Identifiers.
(OR)
b) Describe in detail about SM MT.

14. a) Explain about GPRS Data Services.
(OR)
b) Discuss about Wireless Session Protocol.
15. a) Write a note on Wireless Data.
(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) Discuss in detail about Wireless-The Beginning.
(OR)
b) Explain in detail about the Three-tier architecture of Mobile Computing.
17. a) Write in detail about Voice XML.
(OR)
b) Explain in detail about RFID.
18. a) Write in detail about Authentication and Security in GSM.
(OR)
b) Explain the following:
i) Strengths of SMS ii) SMS Architecture
19. a) Explain in detail about GPRS Network Operations.
(OR)
b) Discuss in detail about MMS Architecture and Transaction flows.
20. a) Explain in detail about Spread Spectrum Technology.
(OR)
b) Write in detail about IEEE 802.11 architecture.

(NO. OF PAGES: 2)

(FOR THE CANDIDATES ADMITTED

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DURING THE ACADEMIC YEAR 2016 ONLY)

REG.NO. :

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

END-OF-SEMESTER EXAMINATIONS: NOVEMBER 2018

B.Sc. I.T

MAXIMUM MARKS: 75

V - SEMESTER

TIME: 3 HOURS

PART – III

SOFTWARE ENGINEERING (ELECTIVE-I)

SECTION – A

(10 X 1 = 10

MARKS)

ANSWER THE FOLLOWING QUESTIONS:

(Multiple Choice Questions)

10. A _____ is a collection of activities, actions and tasks that are performed when some work product is to be created.

- a) Product b) Process c) Input d) Output

11. CRC stands for _____.

- a) Class Responsibility Collaborator b) Class Reply Collaborator
c) Class Responsibility Collection d) Cohesive Responsibility Collaborator

12. _____ is an indication of the relative functional strength of a module.

- a) Coupling b) Class c) Cohesion d) Model

13. The _____ is conducted at the Developer's site.

- a) Array test b) Alpha-test c) Beta-test d) Smoke Test

14. _____ testing is sometimes called as Glass-box testing.

- a) Black-Box b) White-Box c) System d) Structure

SHORT ANSWERS:

15. What are the five Framework activities of Software Engineering?

16. List the models in which Requirements Modeling results.

17. Define Pattern.

18. List any 4 Garvin's Quality Dimensions.

19. Define an Independent path.

SECTION-B

(5X5=25 MARKS)

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

20. a) Write a note on "The Software Process".

(OR)

b) What is an Agile Process? What are the Agility Principles?

21. a) Describe about Data Modeling Concepts.

(OR)

b) Explain about Class Responsibility Collaborator Modeling.

(CONTD....2)

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22. a) Write in detail about Software Quality Guidelines and Attributes.

(OR)

b) Discuss the Design issues evolved in User Interface.

23. a) Write a note on Achieving Software Quality.

(OR)

b) Explain in detail about Unit Testing.

24. a) Explain about Software Testing Fundamentals.

(OR)

b) Discuss shortly about Orthogonal Array Testing.

SECTION- C

(5X8=40 MARKS)

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

25. a) Write in detail about The Nature of Software.

(OR)

b) Explain in detail about the Evolutionary Process Models.

26. a) Explain in detail about Requirement Analysis.

(OR)

b) Explain in detail about Flow Oriented Modeling.

27. a) Discuss in detail about the Design Concepts.

(OR)

c) Write in detail about the Golden Rules of Interface Design.

28. a) Explain in detail about Software Quality.

(OR)

b) Discuss in detail about Integration Testing.

29. a) Explain in detail about Basis Path Testing.

(OR)

b) Write in detail about Control Structure Testing.
