|            |  | DEPART             | MENT OF COMP           | UTER SCIENCE           |                  |    |  |  |  |
|------------|--|--------------------|------------------------|------------------------|------------------|----|--|--|--|
|            | Course Code:                               | 10CT61             | Programme:             | B. Sc., Comp. Sci.     | CIA:             | II |  |  |  |
|            | Date:                                      | 11.06.2022         | Part:                  | III                    | Semester:        | VI |  |  |  |
|            | Duration:                                  | 2 Hours            | Academic Year          | : 2021-22              | Max. Marks:      | 50 |  |  |  |
| DHEARTHEAD | Study Compo                                | nent:              | Core                   | L                      | -4               |    |  |  |  |
|            | Course Title:                              | WEB PROG           | RAMMING                |                        |                  |    |  |  |  |
|            |  | SECT               | ION – A (Rememb        | ering)                 |                  |    |  |  |  |
| Answer A   | ALL the Questions                          | s:                 |                        | (1                     | 0 X 1 = 10 Marks | s) |  |  |  |
| 1          | How to define a f                          | unction in PHP?    | 2                      |                        | CO               | )5 |  |  |  |
|            | a) function {functi                        | on body}           |                        |                        |                  |    |  |  |  |
|            | b) data type function                      | onName(parame      | ters) {function body   | '}                     |                  |    |  |  |  |
|            | c) functionName(p                          | arameters) {fun    | ction body}            |                        |                  |    |  |  |  |
|            | d) function functio                        | nName(paramet      | ers) {function body]   | }                      |                  |    |  |  |  |
| 2          | Which two predefi                          | ned variables ar   | e used to retrieve inf | formation from forms?  | CO               | )5 |  |  |  |
|            | a) \$GET & \$SET                           | b) \$_GET          | & \$_SET               |                        |                  |    |  |  |  |
| -          | c) \$GET & \$\$                            | SET d) GET &       | SET                    |                        |                  |    |  |  |  |
| 3          | How many method                            | ls are available f | for the exception clas | ss?                    | CO               | 95 |  |  |  |
| 4          | a) 5 b) 6 c) 7                             | `d) 8              |                        |                        | <b>C O</b>       |    |  |  |  |
| 4          | Who is the father of                       | of PHP?            | <b>6</b> 1 ·           |                        | CO               | 94 |  |  |  |
|            | a). Rasmus Lerdor                          | t b) Willam N      |                        |                        |                  |    |  |  |  |
| 5          | c) Drek Kolkevi                            | d) List Bare       | ly                     |                        | CO               |    |  |  |  |
| 5          | What does PHP sta                          | and for?           | ii) Uypartayt Drar     | <b>n</b> 000000        | CO               | 74 |  |  |  |
| -          | iji) Protovt Hyporte                       | age                | iv) Preprocessor 1     | Home Dage              |                  |    |  |  |  |
|            | a) Both (i) and (ii) b) Both (ii) and (iv) |                    |                        |                        |                  |    |  |  |  |
|            | c) Only (ii)                               | d) B               | oth (i) and (iii)      |                        |                  |    |  |  |  |
| 6          | PHP files have a d                         | lefault file exten | sion of                |                        | CO               | 4  |  |  |  |
| Ū          | a).html b).                                | xml c).p           | hp d).ph               |                        | 00               | •  |  |  |  |
| 7          | A hexadecimal lite                         | ral begins with    | F                      |                        | CO               | )3 |  |  |  |
|            | a) 00 b) 0x                                | c) 0X              | d) Both 0x and         | l 0X                   |                  |    |  |  |  |
| 8          | Which of the follo                         | wing is not cons   | idered as an error in  | JavaScript?            | CO               | 3  |  |  |  |
|            | a) Syntax error                            | b) Mi              | ssing of semicolons    |                        |                  |    |  |  |  |
|            | c) Division by zero                        | d) Al              | l of the mentioned     |                        |                  |    |  |  |  |
| 9          | The type of a varia                        | ble that is volati | le is                  |                        | CO               | 3  |  |  |  |
|            | a) Volatile variable                       | e b) N             | Autable variable       |                        |                  |    |  |  |  |
|            | c) Immutable varia                         | ible d) E          | ynamic variable        |                        |                  |    |  |  |  |
| 10         | Cookies were origi                         | inally designed f  | for                    |                        | CO               | )3 |  |  |  |
|            | a) Client-side prog                        | ramming            | b) S                   | Server-side programmin | g                |    |  |  |  |
|            | c) Both Client-side                        | & Server-side      | programming d) r       | none                   |                  |    |  |  |  |
|            |  | SECT               | ION – B (Rememb        | ering)                 |                  |    |  |  |  |

| Answei | r any <b>FIVE</b> Questions:               | (5 X 2 = 10 Marks) |
|--------|--|--------------------|
| 11     | How to create a variable in PHP            | CO4                |
| 12     | Write PHP program to display "hello world" | CO4                |
| 13     | Define functions                           | CO3                |
| 14     | Define include()                           | CO5                |
| 15     | What is the usage of header()              | CO5                |
| 16     | List out the Events of the radio elements  | CO3                |
| 17     | Define cookies                             | CO3                |

## **SECTION – C (Understanding)**

| Answe | er any THREE Questions:   | (3 X 6= 18 Marks) |
|-------|---|-------------------|
| 18    | Write short notes on functions in php                           | CO5               |
| 19    | Explain briefly about Radio and check box elements with example | CO3               |
| 20    | Write procedure to run a PHP program with example               | CO4               |
| 21    | Discuss about data types in PHP                                 | CO4               |
| 22    | Discuss about for and for each iteration in PHP                 | CO5               |
|       | SECTION – D (Applying)  |                   |
| Answe | er any <b>ONE</b> Question:                                     | (1X 12= 12 Marks) |
| 23    | Explain about operators and the else if clause in PHP           | CO4               |
| 24    | Write a procedure to connect PHP and MYSQL with example         | CO5               |
|       |   |                   |

|          | VIVEKA  | NANDA COLL<br>DEPAR | EGE, TIRUVEDAR            | KAM WEST - 62523<br>PUTER SCIENCE   | 34                |            |
|----------|---|---------------------|---------------------------|-------------------------------------|-------------------|------------|
|          | Course Code:                                    | 10EP6A              | Programme:                | B.Sc., Comp. Sci.                   | CIA:              | II         |
|          | Date:   | 13 06 2022          | Part:                     | III                                 | Semester:         | VI         |
|          | Duration:                                       | 2 Hours             | Academic Year:            | 2021-22                             | Max. Marks:       | 50         |
|          | Study Compon                                    | ent.                | Elective                  |                                     |                   |            |
| HEARTH   | Course Title                                    | DATA MININ          |                           | DEUOUSINC                           |                   |            |
|          | Course IItle:                                   | DATA MINI           | IG AND DATA WA            | REHOUSING                           |                   |            |
|          |   |                     |                           |                                     |                   |            |
|          |   | SECT                | rion – A (Remember        | ring)                               |                   |            |
| Answer   | ALL the Questions:                              |                     |                           |                                     | (10 X 1 = 10 M)   | arks)      |
| 1        | The degree to which n                           | umeric data tend    | to spread is called       | <br>                                |                   | CO3        |
| 2        | a) Central tendency b)<br>The operation of movi | alspersion c) w     | eighted average d) mi     | urange                              | of aggregation    | CO2        |
| 2        | is called                                       | ng nom mer gra      | inularity data to a coars | sel granularity by means            | s of aggregation  | COS        |
|          | a) Roll-up b) Drill-do                          | wn c) Dicing d)     | Pivoting                  |                                     |                   |            |
| 3        | Hybrid learning is                              | (in c) Dieing u)    | i i oting                 |                                     |                   | CO3        |
| C        | a) machine learning wi                          | ith different tech  | niques b) learning algo   | orithmic analysis                   |                   | 000        |
|          | c) Learning by general                          | izing from exam     | ples d) none of these     | e                                   |                   |            |
| 4        | is not an eff                                   | ective graphical    | method for plotting and   | d comparing groups of u             | inivariate        | CO3        |
|          | observations                                    |                     |                           |                                     |                   |            |
|          | a) quartile plots b) Q                          | -Q plot c) box      | plot d) histogram         |                                     |                   |            |
| 5        | If a rule concerns asso                         | ciations between    | the presence or absence   | e of items is called a              |                   | CO4        |
|          | a) Boolean association                          | rule b) quantitat   | ive association rule      |                                     |                   |            |
| (        | c) dimensional associa                          | tion rule d) multi  | level association rule    | association mile                    |                   | CO4        |
| 0        | a) Multilevel b) multi                          | or more dimens      | lions, then it is         | association rule                    |                   | CO4        |
| 7        | a) Multilevel () Illulu<br>methods are i        | unitensional C) S   | ars in machine learning   | DUUleall<br>expert systems statisti | ice and           | CO4        |
| 1        | neurobiology                                    | used by research    | ers in machine rearning   | , expert systems, statist           |                   | 04         |
|          | a) Classification and p                         | rediction b) asso   | ciation rule c) cluster   | ing d) outlier analysis             |                   |            |
| 8        | Which one of these is a                         | a technique for cl  | lassification?            |                                     |                   | CO5        |
|          | a) Linear regression                            | b) Decision tre     | e induction               |                                     |                   |            |
|          | c) non-linear regressio                         | n d)generalized l   | inear regression          |                                     |                   |            |
| 9        | algorithm const                                 | ructs decision tre  | e using top-down recu     | rsive divide-and-conque             | er mechanism      | CO5        |
|          | a) Apriori b) Greedy                            | c) Djikstra d) no   | one of these              |                                     |                   |            |
| 10       | methods addre                                   | sses the problem    | of over fitting of the d  | ata                                 |                   | CO5        |
|          | a) Tree pruning b) cla                          | ssification rule c  | c) tree induction d) frag | gmentation                          |                   |            |
| A        |   | SEC                 | TION – B (Remember        | ring)                               | (F.X. 2 10 M      | 1)         |
| Answer   | Define data generaliza                          | tion?               |                           |                                     | (5  X  2 = 10  M) | arks)      |
| 11       | Expand DMOL?                                    |                     |                           |                                     |                   | CO3        |
| 12       | Define attribute remov                          | al?                 |                           |                                     |                   | CO3        |
| 13       | List the steps for minir                        | ng class comparis   | son?                      |                                     |                   | CO4        |
| 15       | Define classification?                          | -8 F                |                           |                                     |                   | <b>CO4</b> |
| 16       | Distinguish Classifier                          | and Predictor?      |                           |                                     |                   | CO5        |
| 17       | Give two examples of                            | datamining softw    | vare?                     |                                     |                   | CO5        |
|          |   | SECT                | TION – C (Understand      | ding)                               |                   |            |
| Answer   | any THREE Questions                             | 5:                  |                           |                                     | (3 X 6= 18 M      | arks)      |
| 18       | Describe the procedure                          | e involved in con   | parison of different cla  | asses?                              |                   | CO3        |
| 19       | Discuss briefly about t                         | he issues in class  | intration and prediction  | n?                                  |                   | CO4        |
| 20       | write a short note on (                         | Liassification by   | uack-propagation?         | comining?                           |                   | CO5        |
| 21<br>22 | Analyze social impact                           | s of datamining?    | ents of clustering in dat | anning /                            |                   | CO5        |
|          | Anaryze social impacts                          | s of uatainining?   | CTION - D (Annlyin        | σ)                                  |                   | 005        |
| Answer   | any <b>ONE</b> Question                         | SE                  |                           | 5 <sup>7</sup>                      | (1X 12= 12 M      | arks)      |
| 23       | Enumerate on types of                           | data in cluster a   | nalysis?                  |                                     |                   | CO4        |
| 24       | Explain in detail the tr                        | ends and applicat   | tions of datamining       |                                     |                   | CO5        |

|           |  | DEPART  | MENT OF COMPU   | TER SCIENCE   |                      |          |
|-----------|--|---|---|---|----------------------|----------|
|           | Course Code:   | 10GE21  | Programme:  | B.A/B.Sc./B.Com/<br>B.Com(CA)                       | CIA:                 | II       |
|           | Date:  | 09.06.2022  | Part:   | IV  | Semester:            | II       |
|           | Duration:  | 2 Hours   | Academic Year:  | 2021-22   | Max. Marks:          | 50       |
| HEARTHEAD | Study Compo  | nent: Ge  | eneric Elective Cour  | rse   |                      |          |
|           | <b>Course Title:</b>   | WEB PROG  | RAMMING   |   |                      |          |
|           |  | SECT  | 'ION – A (Rememberi   | ng)   |                      |          |
| Answer    | ALL the Questions  |   |   | <u></u> g)  | (10 X 1 = 10 Mark    | s)       |
| 1         | What should be the   | first tag in any H  | ITML document?  |   | Ċ                    | )1       |
|           | A. <head></head>   | B. <title></title>  | C. <html></html>  | D. <docum< td=""><td>ent&gt;</td><td></td></docum<> | ent>                 |          |
| 2         | Website is a collect   | tion of.  |   |   | CO                   | )1       |
| -         | A. audio files.  | B. video file   | C. image file.  | D. html file.                                       | ~                    |          |
| 3         | How can we make  | a bulleted list?  |   |   | CC                   | )2       |
|           | A. <iist>.</iist>  | B. <nl>.</nl>   | C. <ul></ul>  | D. <0I>   |                      |          |
| 4         | The URL means  |   |   | 1   | CC                   | )2       |
|           | A. use resource loc  | ator.   | B. undefined  | resource locator                                    |                      |          |
| 5         | Which tag inserts a  | line horizontally   | D. user define  | eu locator.   | CC                   | 13       |
| 3         | A < hr >   | B <   | ine $C < line dire$   | ction="horizontal">                                 | D                    | )5       |
| 6         | The enclose HTMI   | tags within?  |   |   |                      | )3       |
| Ū         | A. { }   | B. <  | > C. </td <td>? ?&gt;</td> <td>D. !!</td> <td></td>                     | ? ?>  | D. !!                |          |
| 7         | What is the correct  | HTML for addin  | g a background color?   |   | CC                   | )4       |
|           | A. <body color="&lt;/td"><td>="yellow"&gt;</td><td>B. <body bgo<="" td=""><td>color="yellow"</td><td></td><td></td></body></td></body> | ="yellow">  | B. <body bgo<="" td=""><td>color="yellow"</td><td></td><td></td></body> | color="yellow"                                      |                      |          |
|           | C. background>   | yellow <td>und&gt; D. &lt;</td> <td>oody background="ye</td> <td>llow"&gt;</td> <td></td> | und> D. <   | oody background="ye                                 | llow">               |          |
| 8         | Which of the follow  | ving is not a brow  | vser?   |   | CO                   | )4       |
|           | A. Microsoft Bi  | ng. B. Netsca   | pe Navigator. C. M  | ozilla Firefox. D.                                  | Opera.               |          |
| 9         | How can we make  | a Number list?  |   |   | CO                   | )5       |
|           | A. <list>.</list>  | B. <nl>.</nl>   | C. <ul></ul>  | D. <0 >.  |                      |          |
| 10        | There are diff   | erent of heading  | tags in HTML  |   | CC                   | )5       |
|           | A.4  | B. 5  |   | C. 6  | D. 7                 |          |
|           |  | SECT  | TION – B (Rememberi   | ng)   |                      | ``       |
|           | any <b>FIVE</b> Question   | S:  |   |   | (5  X  2 = 10  Mark) | (S)      |
| 11<br>12  | Expand ID and TCI  | )   |   |   |                      | ノI<br>)1 |
| 12        | List out the any fou   | r web browsers?   |   |   |                      | ))<br>)) |
| 13        | Define <body> tag</body>   |   |   |   |                      | )2<br>)3 |
| 15        | List out the area for  | u tabla attributaa  | )   |   |                      | ))<br>)) |
| 15        | List out the any iou   | ir table attributes.  | (   |   |                      | )3<br>)4 |
| 10<br>17  | The following purp   | ose of tag  |   |   |                      | )4<br>)5 |
| 1/        | (i) $\langle a \rangle$  | (ii) < hr >   |   |   |                      | ))       |
|           | (1) (4)  | SECT  | ION – C (Understandi  | ing)  |                      |          |
| iswer     | any <b>THREE</b> Ouest   | ions:   |   | 8)  | (3 X 6= 18 Mark      | s)       |
| 18        | Explain the HTML   | page formatting   | basics:   |   | Č                    | )ĺ       |
| 19        | Briefly explain abo  | ut unordered list   | with example program  |   | CC                   | )2       |
| 20        | Write any simple p   | orogram to create   | table   |   | CO                   | )3       |
| 21        | Discuss in deta  | il image tag and  | attributes?   |   | CO                   | )4       |
| 22        | Briefly explain abo  | ut ordered list wi  | th example program  |   | CC                   | )5       |
|           |  | SE  | CTION – D (Applying)  | )   | /4 TT 4 A 4 F        |          |
| nswer     | any <b>UNE</b> Question  |   |   |   | (1X 12= 12 Mark)     | ks)      |
| 23        | write a HTML prog  | gram to display y   | our Bio-Data using form   | n tag.  | CC                   | Л        |
| 24        | How to create table  | using its various   | attributes? Explain with  | h an example progran                                | n. <b>CC</b>         | )3       |

|            | Course Code:<br>Date:<br>Duration:<br>Study Compon<br>Course Title: | DEPARTI<br>10SB62<br>06.06.2022<br>1 Hour<br>hent:<br>CYBER SEC | IENT OF COMPU'<br>Programme:<br>Part:<br>Academic Year:<br>Skill Based<br>URITY | TER SCIENCE<br>B.Sc., Comp. Sci.<br>IV<br>2021-22 | CIA:<br>Semester:<br>Max. Marks:      | II<br>VI |
|------------|---|---|---|---|---------------------------------------|----------|
|            | Course Code:<br>Date:<br>Duration:<br>Study Compon<br>Course Title: | 10SB62<br>06.06.2022<br>1 Hour<br>ent:<br>CYBER SEC             | Programme:<br>Part:<br>Academic Year:<br>Skill Based                            | B.Sc., Comp. Sci.<br>IV<br>2021-22                | CIA:<br>Semester:<br>Max. Marks:      | II<br>VI |
|            | Date:<br>Duration:<br>Study Compon<br>Course Title:                 | 06.06.2022<br>1 Hour<br>ent:<br>CYBER SEC                       | Part:<br>Academic Year:<br>Skill Based  | IV<br>2021-22                                     | Semester:<br>Max. Marks:              | VI       |
|            | Duration:<br>Study Compon<br>Course Title:                          | 1 Hour<br>lent:<br>CYBER SEC                                    | Academic Year:<br>Skill Based   | 2021-22   | Max. Marks:                           |          |
|            | Study Compon<br>Course Title:                                       | ient:<br>CYBER SEC  | Skill Based   | i   |                                       | 25       |
|            | Course Title:   | CYBER SEC   | ΙΠΡΙΎΥ  |   |                                       |          |
|            |   |   |   |   | 4                                     |          |
|            |   |   |   |   |                                       |          |
|            |   |   | SECTION – A   |   |                                       |          |
| Answer A   | ALL the Questions   | :   |   |   | (5 X 1 = 5 Marks)                     | 5)       |
| 1 7        | There are   | types of comp   | outer virus.  |   | Ċ                                     | 4        |
| а          | a) 5 b) 7   | c) 10   | d) 12   |   |                                       |          |
| <b>2</b> A | A computer  | is a maliciou   | s code which self-repl  | icates by copying itse                            | elf to other <b>CO</b>                | 4        |
| r          | programs.   |   | 1   | 5 15 0  |                                       |          |
| 2          | a) program  | b) virus c  | e) application  | d) worm   |                                       |          |
| 3          | Which of the follow   | ving is not a type  | of virus?   | .,  | CO                                    | 4        |
| a          | a) Boot sector  | b) Polymorph  | nic c) Multipa  | rtite d) Trojan                                   | IS                                    | -        |
| 4          | What is data encryr   | tion standard (D  | ES)?  | jj  | CO                                    | 5        |
| 2          | a) block cipher   | b) stream ci  | ipher c) bit ci   | pher d) byte                                      | cipher                                | -        |
| 5          | In cryptography, th   | e order of the le   | tters in a message is re  | earranged by                                      | CO                                    | 5        |
| a          | a) transpositional ci   | phers   | b) substitution cipher  | s   | 0.01                                  | -        |
| C          | c) both transposition   | nal ciphers and s   | ubstitution ciphers   | d) quadratic c                                    | iphers                                |          |
| -          | ,   |   | SECTION – B   | -) 1  | -1                                    |          |
| Answer a   | any <b>TWO</b> Question   | ns:   |   |   | $(2 \mathbf{X} 2 = 4 \mathbf{Marks})$ | 5)       |
| 6 I        | Define Virus  |   |   |   | CO                                    | 4        |
| 7 \        | What is meant by T  | rojans?   |   |   | CO                                    | 4        |
| <b>8</b> I | Define worm   | 5   |   |   | CO                                    | 4        |
| 9 I        | Define Cryptograph  | ıy.   |   |   | CO                                    | 5        |
|            |   | 5   | SECTION – C   |   |                                       |          |
| Answer a   | any ONE Question:   | :   |   |   | (1 X 6= 6 Marks                       | 5)       |
| 10         | Write about the typ   | es of virus   |   |   | CO                                    | 4        |
| 11 I       | Describe about the  | Cryptography a  | nd Encryption Technic   | ques  | CO                                    | 5        |
|            |   |   | SECTION – D   | •   |                                       |          |
| Answer a   | any ONE Question:   | :   |   | (1  | l X 10= 10 Marks                      | 5)       |
| 12 E       | Explain about the d   | ifferent between  | virus and worm  |   | CO                                    | 4        |
| 13 E       | Explain the MD5 A   | lgorithm  |   |   | CO                                    | 5        |

|      | DEPARTMENT OF COMPUTER SCIENCE |            |                            |                    |             |    |  |  |  |
|------|--------------------------------|------------|----------------------------|--------------------|-------------|----|--|--|--|
|      | Course Code:                   | 10AE21     | Programme:                 | B. Sc., Comp. Sci. | CIA:        | II |  |  |  |
|      | Date:                          | 13.06.2022 | Part:                      | III                | Semester:   | II |  |  |  |
|      | Duration:                      | 2 Hours    | Academic Year:             | 2021-22            | Max. Marks: | 50 |  |  |  |
| TEAR | Study Compon                   | nent:      | Ability Enhancement Course |                    |             |    |  |  |  |
|      | <b>Course Title:</b>           | STATISTICS | S & PROBABILITY            | 7                  |             |    |  |  |  |

### **SECTION – A (Remembering)**

| Answer | : ALL the Questions: $(10 \times 1 = 10 \text{ M})$   | larks)     |
|--------|---|------------|
| 1      | is the study of functional relationship between the variables, making it possible to predict  | <b>CO3</b> |
|        | /estimate the unknown value of one of the variables from the known value of the other.  |            |
|        | a) Correlational Analysis b)Regression Analysis   |            |
|        | c)Mean Difference Analysis d)None of these  |            |
| 2      | Which of the statements do not hold true?   | CO3        |
|        | a)Both regression coefficients cannot be greater than 1   |            |
|        | b)Regression coefficients are unaffected by origin shift and scale shift  |            |
|        | c) Both correlation and regression coefficients are of same sign  |            |
|        | d) Two regression lines coincide iff $r=\pm 1$  |            |
| 3      | . If $\gamma$ is the correlation coefficient between x and y, then correlation coefficient between 2x   | CO3        |
|        | and 3y+2 is   |            |
|        | a) $\gamma$ b) $2\gamma$ c) $3\gamma+2$ d) $6\gamma+2$  |            |
| 4      | If A={1} and B={2,3} in S={1,2,3,5,6}, which is the event representing the occurrence of  | CO3        |
|        | exactly one of events A,B?  |            |
| _      | a) $\{1,2,3\}$ b) $\{\}$ c) $\{2,3\}$ d) S  | ~~.        |
| 5      | Phenomenon of Statistical Regularity is observed when   | CO4        |
|        | a) Number of trials of a random experiment increases  |            |
|        | b) Number of trials of a random experiment is kept minimal  |            |
|        | c) Relative frequencies approach divergent values   |            |
|        | d) None of these  | 004        |
| 0      | Which of these definitions of probability defines probability as a function whose domain  | CO4        |
|        | is the class of events taking values on the real line?  |            |
|        | a)Classical definition b)Axiomatic definition   |            |
| -      | c)Frequency definition d)None of these  | CO4        |
| /      | . For any 2 events A and B, P (AUB)=<br>$a(A) + D(B) = b(A) + D(B) = b(A \cap D) = a(B \cap D) = a(B \cap D) = a(B \cap D)$   | CO4        |
| ø      | a)P(A)+P(D) = 0)P(A)+P(D)-P(A    D) = 0)P(A)-P(A    D) = 0)P(A)-P(D)-P(A    D)<br>Two cords are drown from a well shuffled near of 52 cords. Find the probability that they | COF        |
| 0      | are both aces if the first cord is replaced   | 05         |
|        | a = b = b = 1/160 $a = b = b = c = c = c = c = c = c = c = c$   |            |
| 0      | A class contains 10 men and 20 women of which half men and half women have brown  | CO5        |
| ,      | eves. Find the probability that a person chosen at random is a man or has brown eves  | 005        |
|        | a) $\frac{1}{5}$ b) $\frac{1}{6}$ c) $\frac{1}{3}$ d) $\frac{2}{3}$   |            |
| 10     | A pair of fair dice is tossed What is the probability that the maximum of the two numbers   | CO5        |
| 10     | is greater than 4?  | 005        |
|        | a) $\frac{4}{36}$ b) $\frac{20}{36}$ c) $\frac{2}{36}$ d) $\frac{6}{36}$  |            |
|        | SECTION – B (Remembering)   |            |
| Answer | any FIVE Questions: $(5 \times 2 = 10 \text{ M})$   | [arks)     |
| 11     | What is the formulae to find the probability of any event?  | <b>CO3</b> |
| 12     | What is the probability of getting 9 cards of the same suit in one hand at a game of bridge?  | <b>CO3</b> |
| 13     | A box contains 3 red,6 white,7blue balls. What is the probability that 2 balls drawn are white and  | <b>CO3</b> |
|        | blue?   |            |
| 14     | 1. Two coins are tossed 500 times, and we get: Two heads: 105 times, One head: 275 times and No   | <b>CO4</b> |

head: 120 times .Find the probability of each event to occur.

| 15     | Two playe<br>match is 0.                     | Two players, Sangeet and Rashmi, play a tennis match. The probability of Sangeet winning the match is 0.62. What is the probability that Rashmi will win the match? |              |                 |                               |                           |             |                   | <b>CO4</b>           |            |
|--------|--|---|--------------|-----------------|-------------------------------|---------------------------|-------------|-------------------|----------------------|------------|
| 16     | If $P(A) = 7$                                | If $P(A) = 7/13$ , $P(B) = 9/13$ and $P(A \cap B) = 4/13$ , evaluate $P(A B)$ .   |              |                 |                               |                           |             | CO5               |                      |            |
| 17     | Mention th                                   | e types of  | sampling.    |                 |                               | × .                       | ,           |                   |                      | <b>CO5</b> |
|        |  |   | S            | ECTION          | – C (Und                      | lerstandi                 | ing)        |                   |                      |            |
| Answer | any <b>THR</b>                               | EE Questi   | ons:         |                 |                               |                           | Ċ,          |                   | ( <b>3 X 6= 18</b> I | Marks)     |
| 18     | Discuss about the various operation of sets. |   |              |                 |                               |                           |             |                   | <b>CO3</b>           |            |
| 19     | The length                                   | X of a cer  | tain type o  | f light bulb    | may be su                     | pposed to                 | be a contin | uous rando        | om variable          | CO4        |
|        | with proba                                   | bility densi  | ity function | n: $F(x) = a /$ | x <sup>3</sup> , 1500<        | x<2500                    |             |                   |                      |            |
|        |  | 41  |              | =               | =0, else wł                   | nere.                     |             |                   |                      |            |
| • •    | Determine                                    | the constant  | nt "a".      |                 |                               |                           |             |                   |                      | ~~ ·       |
| 20     | Explain the                                  | e properties  | s of Distric | oute function   | n.                            |                           |             |                   |                      | CO4        |
| 21     | Explain the                                  | e M.G.F of  | CHI-Squa     | re distribut    | ion?                          |                           |             |                   |                      | CO5        |
| 22     | Summarize                                    | e the applic  | ation of T   | distributior    | 1.                            |                           |             |                   |                      | CO5        |
|        |  |   |              | SECTIO          | $\mathbf{DN} - \mathbf{D}$ (A | Applying                  |             |                   |                      |            |
| Answer | any ONE                                      | Question:   |              |                 |                               |                           |             |                   | (1X 12 = 12)         | Marks)     |
| 23     | A random                                     | variable  | X has the    | following       | probabili                     | ty function               | on:         |                   |                      | <b>CO4</b> |
|        | Value  | 0   | 1            | 2               | 3                             | 4                         | 5           | 6                 | 7                    |            |
|        | of X,x                                       |   |              |                 |                               |                           |             |                   |                      |            |
|        | P(x)   | 0   | Κ            | 2k              | 2k                            | 3k                        | $K^2$       | $2k^2$            | $7k^2+k$             |            |
|        | (i) Fi                                       | nd k (ii) E   | valuate P    | (x < 6), P(X)   | >=6),and                      | $p(\overline{0 < x < 5})$ | ).          |                   |                      |            |
| 24     | If X is chi                                  | -square va  | ariate with  | n n d.f., the   | en prove t                    | hat for la                | rge n,√2x - | $-N(\sqrt{2n},1)$ |                      | <b>CO5</b> |

#### TZANE TUDOW 605004 (NIDIII/DI

|             |                             | DEPARTI               | MENT OF COMPU               | TER SCIENCE              |   |         |
|-------------|-----------------------------|-----------------------|-----------------------------|--------------------------|---|---------|
| -           | Course Code:                | 10AT41                | Programme:                  | B. Sc., Comp. Sci.       | CIA:  | II      |
|             | Date:                       | 13.06.2022            | Part:                       | III                      | Semester:   | Iλ      |
| <b>*</b>    | Duration:                   | 2 Hours               | Academic Year:              | 2021-22                  | Max. Marks:   | 50      |
| NUHEARTHEAD | Study Compo                 | nent:                 | Allied                      | 1                        |   |         |
|             | Course Title:               | NUMERICA              | L METHODS FOR               | COMPUTER SCIE            | ENCE  |         |
|             | 1                           |                       |                             | • ``                     |   |         |
| Answei      | r <b>AII</b> , the Ouestion | sect                  | ION – A (Remember           | ring)<br>(1              | 0 X 1 - 10 Mark   | c)      |
| 1           | In which of the fo          | s.<br>llowing method  | we approximate the a        | urve of solution by the  | $\mathbf{V} \mathbf{A} \mathbf{I} = \mathbf{I} \mathbf{V} \mathbf{M} \mathbf{a} \mathbf{K}$<br>e tangent in <b>CO</b> | s)<br>1 |
| 1           | each interval.              | nowing method,        | we approximate the c        | curve or solution by the |   | 1       |
|             | a) Picard's method          | b) Euler's m          | ethod c) Newton'            | s method d) Range K      | utta method   |         |
| 2           | Jacobi's method is          | also known as         |                             | s mourou a) runge ri     | CO  | )1      |
| _           | a) Displacement m           | ethod b) Si           | multaneous displacem        | nent method              |   | -       |
|             | c) Simultaneous m           | ethod d) D            | iagonal method              |                          |   |         |
| 3           | The number of sig           | nificant digits in    | the number 204.0200         | 050 is                   | CO  | )1      |
|             | a)5 b) 6 c) 8               | d) 9                  |                             |                          |   |         |
| 4           | In a ordinary different     | ial equations the fir | st category methods is      |                          | CO  | )5      |
|             | .a. Taylor Method           | b. Euler Met          | hod c. Runge-K              | utta Method d. Poin      | twise Method  |         |
| 5           | A of differentia            | al equations is a fun | ction which satisfies the d | lifferentialequations.   | CO  | )5      |
|             | a.Solution. b.G             | eneral solution.      | c.Particular solution.      | d.Complete solution.     |   |         |
| 6           | If population censu         | us for the years 1    | 931, 1941, 1951, 196        | 1 and 1971 is given an   | d if we CO  | )5      |
|             | want to estimate th         | e population for      | the year 1935 then          | met                      | hod is used.  |         |
|             | (a) Forward different       | ence                  | (b) backward differ         | rence                    |   |         |
|             | (c) Newton's divid          | led difference        | (d) Lagrangian              |                          |   |         |
| 7           | 64 The degree of $y(x)$     | in Trapezoidal Rul    | e is                        |                          | CO  | )4      |
|             | a.1. b.2. c.3.              | d.6.                  |                             |                          |   |         |
| 8           | The degree of $y(x)$ in     | Simpson's (1/3)rd     | Rule is                     |                          | CO  | 94      |
|             | a.1. b.2. c.3.              | d.6                   |                             |                          |   |         |
| 9           | The degree of $y(x)$ in     | Simpson's (3/8)th     | is                          |                          | CO  | 4       |
|             | a.1. b.2. c.3.              | d.6.                  |                             |                          |   |         |
| 10          | Numerical differentia       | tion can be used on   | ly when the difference of   | some order               | CO  | 4       |
|             | a. Equally spaced.          | b. Unequally          | spaced. c. Are consta       | nt. d. Independent       |   |         |
|             |                             | SECT                  | ION – B (Remember           | ring)                    |   |         |
| Answer      | r any <b>FIVE</b> Questio   | ns:                   |                             | (                        | 5 X 2 = 10 Marks  | s)      |
| 11          | Which order of R.           | K method is call      | ed Modified Euler me        | thod                     | CO  | )5      |
| 12          | Write a formula of          | Improved Euler        | 's method                   |                          | CO  | )5      |
| 13          | Write Steps to find         | l inversion of ma     | atrix using Gauss Elin      | nination method          | CO  | )1      |
| 14          | Write a formula of          | Regula- falsi m       | ethod                       |                          | CO  | )1      |
| 15          | Write a procedure           | to solve Newton       | forward differentiation     | on method                | CO  | )4      |
| 16          | Write down first d          | erivative of New      | ton Backward differe        | ntiation formula         | CO  | )4      |
| 17          | Why we use Romb             | berg's method         |                             |                          | CO  | )4      |
|             |                             | SECT                  | ION – C (Understan          | ding)                    |   |         |
| Answer      | r any <b>THREE</b> Ques     | tions:                |                             |                          | (3 X 6= 18 Marks  | s)      |
| 18          |                             |                       |                             |                          | CO  | )4      |

Evaluate  $\int_0^1 \frac{dx}{1+x^2}$  using Romberg's method. Hence, obtain an appropriate value for  $\pi$ 

- **19** Given y' = -y and y(0)=1, determine the value of y at x = (0.01)(0.01)(0.04) by Euler **CO5** method
- 20 Solve the equation  $\frac{dy}{dx} = 1 y$ , given y(0)=0 using modified Euler's method find y at x=0.1, 0.2. CO5
- 21 Solve for a positive root of  $x^3 4x + 1 = 0$  by Regula falsi method CO1

22 Find by Guassian elimination method, the inverse of A= $\begin{pmatrix} 3 & -1 & 1 \\ -15 & 6 & -5 \\ 5 & -2 & 2 \end{pmatrix}$ 

#### **SECTION – D (Applying)**

#### Answer any **ONE** Question:

- 23 Find positive root of  $x^3 x = 1$  correct to four decimal places by Bi-section method CO1
- **24** Apply fourth order Range-kutta method to find y at x=0.1,0.2 given that y' = x + y, y(0) = 1.

#### &&&&&&&

# C01

(1X 12= 12 Marks)

#### VIVEKANANDA COLLEGE, TIRUVEDAKAM WEST - 625234 **DEPARTMENT OF COMPUTER SCIENCE** 10CT21 Π **Course Code:** B. Sc., Comp. Sci. CIA: **Programme:** 08.06.2022 Π Date: Part: III Semester: **Academic Year:** 2021-22 **Duration**: 2 Hours Max. Marks: 50 **Study Component:** Core Course **Course Title: OBJECT ORIENTED PROGRAMMING WITH C++**

#### **SECTION – A (Remembering)**

| Answer | ALL the Questions: (1  | 0 X 1 = 10 Marks)  |
|--------|--|--------------------|
| 1      | is the mechanism which allows a class A to inherit properties of a class B.  | CO4                |
|        | A. Data abstraction B. Encapsulation C. Inheritance D. Polymorphism  |                    |
| 2      | is a default access specifier for members of class in C++.   | CO4                |
|        | A. protected B. public C. private D. default   |                    |
| 3      | Public, private, protected are   | CO3                |
|        | A. identifiers. B. data members. C. access specifies. D. type of clas  | s                  |
| 4      | Overloaded functions are   | C05                |
|        | A. very long functions that can hardly run.  |                    |
|        | B. Two or more functions with the same name but different number of parameters or C short functions that can easily modified | type.              |
|        | D. One function containing another one or more functions inside it   |                    |
| 5      | Which of the following is not a type of inheritance?   | CO4                |
| 5      | A. Multiple, B. Multilevel, C. Distributive, D. Hybrid.  | 04                 |
| 6      | A is an instance of class.   | CO5                |
| -      | A. code. B. object. C. variable. D. pointer.   |                    |
| 7      | is one of the ways to achieve polymorphism.  | CO5                |
|        | A. Inheritance B. Data overloading C. Operator overloading D. Message  | binding            |
| 8      | is a relationship between classes.   | CO3                |
|        | A. Polymorphism B. Inheritance C. Overloading D. Overriding  |                    |
| 9      | is not a type of scope in c++.   | CO3                |
|        | A. Global. B. Local. C. File. D. Function.   |                    |
| 10     | Static variables can be  |                    |
|        | A. cannot be created B. initialized only once.   | CO3                |
|        | C. a constant D. a class   |                    |
|        | <b>SECTION – B (Remembering)</b>   |                    |
| Answer | any <b>FIVE</b> Questions:   | (5 X 2 = 10 Marks) |
| 11     | Define Destructor  | CO3                |
| 12     | Define Constructor   | CO3                |
| 13     | Define Copy Constructor  | CO3                |
| 14     | Define Inheritance   | CO4                |
| 15     | Define Multipath Inheritance   | CO4                |
| 16     | Write about Polymorphism   | CO5                |
| 17     | Define pointer   | CO5                |
|        | <b>SECTION – C</b> (Understanding)   |                    |
| Answer | any <b>THREE</b> Questions:  | (3 X 6= 18 Marks)  |
| 18     | Explain about Argument Constructor   | CO3                |
| 19     | Write about single inheritance   | CO4                |
| 20     | Explain about the Access specifiers  | CO4                |
| 21     | Discuss about Virtual Functions  | CO5                |
| 22     | Describe about the THIS pointer  | CO5                |
|        | SECTION – D (Applying)   |                    |
| Answer | any <b>ONE</b> Question:   | (1X 12= 12 Marks)  |
| 23     | Explain about the Inheritance and its types with Example   | CO4                |
| 24     | Apply the concept of pure virtual function   | CO5                |

|          |                            | DEPA                | RTMENT OF COMP                                  | UTER SCIENCE            |                   |                 |
|----------|----------------------------|---------------------|---|-------------------------|-------------------|-----------------|
| <u></u>  | Course Code:               | 10CT22              | Programme:                                      | B.Sc., Comp. Sci.       | CIA:              | II              |
|          | Date:                      | 11.06.2022          | Part:   | III                     | Semester:         | II              |
|          | Duration:                  | 2 Hours             | Academic Year:                                  | 2021-22                 | Max. Marks:       | 50              |
|          | Study Compone              | ent:                | Core Course                                     |                         |                   |                 |
|          | Course Title:              | DATA STRU           | CTURE   |                         |                   | . <b>_J</b>     |
|          |                            |                     |   | • ``                    |                   |                 |
| <b>A</b> | ALL the Owerting           | SEC                 | TION – A (Remember                              | ring)                   | (10 V 1 10 M      | ~ <b></b> ]- ~) |
| Answer   | ALL the Questions:         | and the problem     | of over fitting of the date                     |                         | (10  X 1 = 10  M) | arks)           |
| 1        | a) Tree pruning b) c       | lassification rule  | c) tree induction                               | l) fragmentation        |                   | COS             |
| 2        | a tree means p             | rocessing it in si  | ich a way that each no                          | de is visited only once |                   | CO3             |
| -        | a) Traversing b) In        | mplement (          | c) Partition. d) Node.                          |                         |                   | 000             |
| 3        | The queue which wra        | ps around upon      | reaching the end of th                          | e arrav is called as    |                   | CO3             |
| -        | a) circular queue b)       | linked queue        | c) doubly linked list                           | d) representation of qu | ueue              |                 |
| 4        | Expression into postfi     | ix expression: (A   | A - B) * (D / E)                                |                         |                   | <b>CO3</b>      |
|          | a) ABDE - * / b) -         | * / ABDE            | c) $\overrightarrow{AB} - \overrightarrow{DE*}$ | d) * - A B / D E        |                   |                 |
| 5        | For the heap sort, acc     | ess to nodes inv    | olves simple                                    | operations.             |                   | <b>CO4</b>      |
|          | a) binary b) arith         | hmetic c)a          | lgebraic d) logar                               | ithmic                  |                   |                 |
| 6        | is not a techni            | ique of tree trav   | ersal.  |                         |                   | <b>CO4</b>      |
|          | a) pre-order b) p          | ost-order           | c) prefix d) in-or                              | rder                    |                   |                 |
| 7        | Accessing and proces       | sing each array     | elements is called                              | •                       |                   | <b>CO4</b>      |
|          | a) sorting b) trav         | ersing c) s         | earching d) mer                                 | ging                    |                   |                 |
| 8        | involves mainta            | aining two table    | s in memory.                                    |                         |                   | CO5             |
|          | a) Arranging b)            | Bonding             | c) Combing d) Ch                                | aining                  |                   |                 |
| 9        | The is                     | used in an eleg     | ant sorting algorithm.                          | -                       |                   | CO5             |
|          | a) Heap sort b) (          | Quick sort          | c) Merge sort                                   | d) Radix sort.          |                   |                 |
| 10       | The term push and po       | p is related to _   | ·   |                         |                   | CO5             |
|          | a) Array b) Lists          | c) Stack            | d) Trees  |                         |                   |                 |
|          |                            | SECT                | <b>FION – B (Remember</b>                       | ring)                   |                   |                 |
| Answer   | any <b>FIVE</b> Questions: |                     |   |                         | (5 X 2 = 10 Ma)   | arks)           |
| 11       | List the attributes of a   | ı singly linked li  | st?   |                         |                   | CO3             |
| 12       | List the types of linked   | lists?              |   |                         |                   | CO3             |
| 13       | What does a node conta     | in in a linked list | ?   |                         |                   | CO3             |
| 14       | Define a Leaf node in a    | tree?               |   |                         |                   | <b>CO4</b>      |
| 15       | List the types of tree da  | ta structures?      |   |                         |                   | CO4             |
| 16       | List the components of     | a graph data struc  | cture?  |                         |                   | CO5             |
| 17       | Define sorting?            |                     |   |                         |                   | CO5             |
|          |                            | SECI                | ION – C (Understan                              | ding)                   |                   |                 |
| Answer   | any THREE Question         | ns:                 |   |                         | (3 X 6= 18 Ma     | arks)           |
| 18       | Discuss briefly on the o   | perations of a sin  | gly linked list?                                |                         |                   | CO3             |
| 19       | Write a note on the type   | es of linked list w | ith a neat diagram?                             |                         |                   | CO4             |
| 20       | Illustrate the search ope  | ration using a bir  | nary search tree?                               |                         |                   | <b>CO4</b>      |
| 21       | Illustrate the working of  | f bubble sort with  | an example?                                     |                         |                   | CO5             |
| 22       | Discuss about Warshall     | 's algorithm ?      |   |                         |                   | CO5             |
|          |                            | SE                  | CTION – D (Applyin                              | ng)                     |                   |                 |
| Answer   | any <b>ONE</b> Question:   |                     |   |                         | (1X 12= 12 Ma     | arks)           |
| 23       | Explain in detail travers  | sal in binary trees | ?   |                         |                   | CO4             |
| 24       | Compare and commen         | nt on the workir    | ng of Insertion sort and                        | l Merge sort?           |                   | <b>CO5</b>      |

|            |  | DEPAR  | TMENT OF COMP             | PUTER SCIENCE              |                         |    |  |
|------------|--|--|---------------------------|----------------------------|-------------------------|----|--|
| <b>~</b> . | Course Code:   | 10CT41   | Programme:                | B. Sc., Comp. Sci.         | CIA:                    | I  |  |
| 8 001      | Date:  | 08.06.2022   | Part:                     | III                        | Semester:               | I  |  |
|            | Duration:  | 2 Hours  | Academic Year:            | 2021-22                    | Max. Marks:             | 5  |  |
|            | Study Compos   | 2 mours  | Core                      |                            | Man. Mains.             |    |  |
| FARI       | Course Title   |  |                           |                            | ТЪЛЛ                    |    |  |
|            | Course Intie:  | RELATIONA  | AL DATADASE MA            | ANAGEMENT 515              |                         |    |  |
|            |  | SECT   | <b>FION – A (Remember</b> | ring)                      |                         |    |  |
| Answer     | ALL the Questions:   | :  |                           | <b>e</b> /                 | 10 X 1 = 10 Mark        | s) |  |
| 1          | Referential integrity  | y constraints are  | also called as            |                            | CO                      | 3  |  |
|            | A. Functional depen  | ndencies   | B. Subset dependen        | cies                       |                         |    |  |
|            | C. Superset depend   | encies   | D. Primary depende        | encies                     |                         |    |  |
| 2          | What statement is used to define a new assertion in SQL?   |  |                           |                            |                         | 3  |  |
|            | A. create check  | B. create ass  | ertion where              |                            |                         |    |  |
| _          | C. create where D. c   | create assertion c   | heck                      |                            |                         | _  |  |
| 3          | How many primitiv  | ve operators of re   | lation algebra as propo   | sed by codd                | CO                      | )3 |  |
|            | A. 2   | B. 3   | C. 4                      | D. 6                       | <b>CO</b>               |    |  |
| 4          | Which is a unary of  | peration   | ,. ,.                     |                            | CO                      | 5  |  |
|            | A. Selection operation   | $\begin{array}{ccc} 10n & B. P_1 \\ tion & D. Comparation \end{array}$ | rimitive operation        |                            |                         |    |  |
| 5          | U. Projection operation D. Generalized selection<br>Which of the three possible types of triggers does SOL Server surrest? |  |                           |                            |                         |    |  |
| 5          | $\frac{1}{1}$  | $possible types of p_{1}$  | ETED only                 | ver support?               | to                      | 4  |  |
|            | A. INSTEAD OF 0  | Dilly D. A   | D INSTEAD OF at           | nd AFTED only              |                         |    |  |
| 6          | SOL data definition  | o commands mak   | D, INSTEAD OF at          | IIII AFTER OIIIY           | CO                      | 1  |  |
| U          |  | R DMI  | С пра                     | D XMI                      | CO                      | -  |  |
| 7          | The SOL keyword(   |  | sed with wildcards        | D. MUL                     | CO                      | 4  |  |
| ,          | A LIKE only  | $\frac{3}{B}$ IN only  | C NOT IN only             | D IN and NOT IN            | 0                       | -  |  |
| 8          | commands i   | in SOL allow cor   | trolling access to data   | within database:           | CO                      | )5 |  |
| -          | A. Database  | B. Data  | C. Data control D. A      | All of these               |                         | -  |  |
| 9          | Which constraint th  | at requires that t   | he column contain a va    | lue when it is initially i | nserted into CO         | 95 |  |
|            | the table:   |  |                           | ·                          |                         |    |  |
|            | A. IS NULL   | B. NOT NU  | LLC. UNIQUE               | D. NONE                    |                         |    |  |
| 10         | How many set oper  | ations supports t  | he oracle SQL:            |                            | CO                      | 95 |  |
|            | A. 2   | B. 3   | C. 4                      | D. 5                       |                         |    |  |
|            |  | SECT   | <b>FION – B (Remember</b> | ring)                      |                         |    |  |
| Answer     | any <b>FIVE</b> Question   | s:   |                           |                            | (5 X 2 = 10 Mark)       | s) |  |
| 11         | Define Normalizati   | on.  |                           |                            | CO                      | 3  |  |
| 12         | Define File Organiz  | zation   |                           |                            | CO                      | )3 |  |
| 13         | Define RAID.   | 0  |                           |                            |                         | 3  |  |
| 14         | What is a transaction  | on?  |                           |                            |                         | 94 |  |
| 15         | What is index? List  | t its types  | h - J-4- :4 h - 1-        | -1 19                      |                         | 94 |  |
| 10         | What are the variou  | is modes in which  | n a data item may be io   | CKed ?                     |                         | 5  |  |
| 1/         | what are the two ap  | pproaches to stor<br>SFCT  | TON = C (Understand       | ling)                      | to                      | 5  |  |
| Answer     | any <b>THREE</b> Ouesti  | ions:  |                           | illig)                     | (3 X 6= 18 Mark         | S) |  |
| 18         | Specify the various  | ways of organiz  | ing records in files and  | explain any one file or    | panization in <b>CO</b> | 3  |  |
| 20         | detail.  | www.joororganii.   |                           |                            | 5                       | •  |  |
| 19         | Explain Ouerv opti   | CO   | 4                         |                            |                         |    |  |
| 20         | Discuss why concu  | CO   | 94                        |                            |                         |    |  |
| 21         | Draw and explain the   | CO   | )5                        |                            |                         |    |  |
| 22         | What are the basic   | issues while imp   | plementing distributed c  | databases?                 | СО                      | 95 |  |
|            |  | SE   | CTION – D (Applying       | g)                         |                         |    |  |
| Answer     | any ONE Question:  |  |                           |                            | (1X 12= 12 Mark         | s) |  |
| 23         | Explain B+ trees w   | ith example.   |                           |                            | CO                      | 4  |  |
| 24         | Explain in details c   | oncurrency contr   | ol and recovery.          |                            | CO                      | 95 |  |

| Course Code:  10CT42  Programme:  B.Sc., Comp. Sci.  Cla:  II    Date:  11.06.2022  Part:  III  Semester:  IV    Duration:  2 Hours  Academic Year:  2021-22  Max. Marks:  50    Study Component:  Core  III  Semester:  IV    Ourse Title:  DOT NET PROGRAMMING  SECTION – A (Remembering)    Answer ALI. the Questions:  Core  Course Title:  OT NET PROGRAMMING    SECTION – A (Remembering)  Statements:  Course Title:  OT NET PROGRAMMING    Mich is not an optional element of a sub procedure declaration?  Co2  A. Parameters:  B. Public.  C. Sub.  D. Statements:    3  How do user terminate code execution using VB NET method?  Co2  A. Exit:  B. Close.  C. Close Sub.  D. Exit Sub.  Co3    4  Tick event is found only in the object  C. Close Sub.  D. Exit Sub.  Co3    4  Tick event is found only in the object  D. Dethel.  D. TextBox.  Co3    5  Mution is not a common control event?  Co3  D. TextBox.  Co3    4  The Can   | DEPARTMENT OF COMPUTER SCIENCE  |  |                          |  |                   |                  |               |   |  |  |  |
|---|---|--|--------------------------|--|-------------------|------------------|---------------|---|--|--|--|
| Date:  11.06.2022  Part:  III  Semester:  IV    Duration:  2 Hours  Academic Year:  2021-22  Max. Marks:  50    Study Component:  Core  Core  Max. Marks:  50    Course Title:  DOT NET PROGRAMMING  (10 X 1 = 10 Marks)    Answer ALL the Questions:  (10 X 1 = 10 Marks)    1  Which is not an optional element of a sub procedure declaration?  CO2    A. Parameters.  B. Public.  C. Sub.  D. Statements.    2  Which is not an optional element of a sub procedure declaration?  CO2    A. Parameters.  B. Public.  C. Sub.  D. Statements.    2  Which is not an optional element of a sub procedure declaration?  CO2    A. A. Parameters.  B. Public.  C. Sub.  D. Statements.    3  How do user terminate code execution using VB.NET method?.  CO2  A. Exit.  B. Close.  C. Close Sub.  D. Exit Sub.    4  Tick event is found only in the object  Co  A. Clock.  B. SingleClick.  C. DoubleClick.  D. MouseMove.  CO3    6  The CancelButton property belongs to which object? <td< th=""><th><u>,</u></th><th>Course Code:</th><th>10CT42</th><th>Programme:</th><th>B.Sc., Comp. Sci.</th><th>CIA:</th><th>II</th></td<>   | <u>,</u>  | Course Code:   | 10CT42                   | Programme:   | B.Sc., Comp. Sci. | CIA:             | II            |   |  |  |  |
| Duration:  2 Hours  Academic Year.  2021-22  Max. Marks:  56    Study Component:  Core  Core  Course Title:  DOT NET PROGRAMMING    Answer ALL the Questions:  (I0 X 1 = 10 Marks)  SECTION – A (Remembering)    Answer ALL the Questions:  (I0 X 1 = 10 Marks)    A Parameters:  B. Public.  C. Sub.  D. Statements.    2  Which method will return the number of elements in an array?  CO2  A. Dimension.  B. Length.  C. Number.  D. Size.    3  How do user terminate code execution using VB.NET method?.  CO3  A. Form  B. Timer.  C TextBox.  D. Label.  Co3    4  Tick event is found only in the object   |   | Date:  | 11.06.2022               | Part:  | III               | Semester:        | IV            |   |  |  |  |
| Study Component:  Core    Course Title:  DOT NET PROGRAMMING    SECTION - A (Remembering)  (10 X 1 = 10 Marks)    1  Which is not an optional element of a sub procedure declaration?  CO2    A. Parameters.  B. Public.  C. Sub.  D. Statements.    2  Which method will return the number of elements in an array?  CO2    A. Dimension.  B. Length.  C. Number.  D. Size.    3  How do user terminate code execution using VB.NET method?.  CO3    A. Form  B. Timer.  C. TextBox.  D. Label.    5  Which is not a common control event?  CO3  A. Form  B. SingleClick.  D. MouseMove.    6  The CancelButton property belongs to which object?  CO3  A. Buton.  B. Form.  C. Label.  D. TextBox.    7  The CancelButton property belongs to which object?  CO3  A. virtual  B. local  C. session  D. global    9  How many files do a Config folder contains?  A. data object.  B. data source.  C. table.  D. records    8  Each web application has its own set of cached, application and  Go12  A. wirtual  B. local  |   | Duration:  | 2 Hours                  | Academic Year:   | 2021-22           | Max. Marks:      | 50            |   |  |  |  |
| Course Title:  DOT NET PROGRAMMING    SECTION – A (Remembering)    Answer ALL the Questions:  (10 X 1 = 10 Marks)    1  Which is not an optional element of a sub procedure declaration?  CO2    A. Parameters:  B. Public.  C. Sub.  D. Statements.    2  Which method will return the number of elements in an array?  CO2    A. Dimension.  B. Length.  C. Number.  D. Size.    3  How do user terminate code execution using VB.NET method?.  CO2    A. Exit.  B. Close.  C. Close Sub.  D. Exit Sub.    4  Tick event is found only in the object  CO3    A. Form.  B. Timer.  C. TextBox.  D. MouseMove.    6  The CancelButton property belongs to object.  CO3    A. Button.  B. Form  C. Label.  D. TextBox.   7  The CancelButton property belongs to which object?  CO3    A. button  B. Form  C. Label.  D. floadat.  CO5    A. Button.  B. Jocal  C. session  D. global    9  How many files do a Config folder contains?  CO5  A. data Object.  | DHEARTHEAD  | Study Component: Core                                      |                          |  |                   |                  |               |   |  |  |  |
| SECTION – A (Remembering)    Answer ALL the Questions:  (10 X 1 = 10 Marks)    1  Which is not an optional element of a sub procedure declaration?  CO2    A. Parameters.  B. Public.  C. Sub.  D. Statements.  CO2    A. Dimension.  B. Length.  C. Number.  D. Size.  CO2    A. Dimension.  B. Length.  C. Number.  D. Size.  CO3    A. Exit.  B. Close.  C. Close Sub.  D. Exit Sub.  CO3    A. Form.  B. Timer.  C. TextBox.  D. Label.  CO3    A. Form.  B. SingleClick.  C. DoubleClick.  D. MouseMove.  CO3    A. Click.  B. SingleClick.  C. DoubleClick.  D. MouseMove.  CO3    A. Button.  B. Form.  C. Label.  D. TextBox.  CO3    A. Button.  B. Form.  C. Label.  D. TextBox.  CO3    A. Sutton.  B. Jocal  C. session  D. global  O5    How many files do a Config folder contains?  CO5  A. data Object.  B. data source.  C. table.  D. records    SECTION – B (Remembering)  CO2  A.   |   | <b>Course Title:</b>                                       | DOT NET F                | ROGRAMMING   |                   |                  |               |   |  |  |  |
| Answer ALL the Questions: (10 X 1 = 10 Marks)<br>1 Which is not an optional element of a sub procedure declaration? CO2<br>A. Parameters. B. Public, C. Sub. D. Statements.<br>2 Which method will return the number of elements in an array? CO2<br>A. Dimension. B. Length, C. Number. D. Size.<br>3 How do user terminate code execution using VB.NET method?. CO2<br>A. Exit. B. Close. C. Close Sub. D. Exit Sub.<br>4 Tick event is found only in the object CO3<br>A. Form B. Timer. C. TextBox. D. Label.<br>5 Which is not a common control event? CO3<br>A. Click. B. SingleClick. C. DoubleClick. D. MouseMove.<br>6 The CancelButton property belongs toobject. CO3<br>A. Button. B. Form. C. Label. D. TextBox.<br>7 The CancelButton property belongs toobject. CO3<br>A. Button. B. Form C. Label. D. TextBox.<br>8 Each web application has its own set of cached, application anddata. CO5<br>A. J. Button B. Form C. Label. D. TextBox<br>8 Each web application has its own set of cached, application anddata. CO5<br>A. J. Marks)<br>9 How many files do a Config folder contains?<br>CO5<br>A. data Object. B. data source. C. table. D. records<br>SECTION - B (Remembering)<br>Answer any FIVE Questions: (5 X 2 = 10 Marks)<br>11 Define Array CO2<br>2 What do you mean by Function?<br>Answer any THREE Questions: (3 X 6= 18 Marks)<br>18 Discusse about the function returning a value with example<br>CO3<br>Answer any THREE Questions: (3 X 6= 18 Marks)<br>18 Discusse about the function returning a value with example<br>CO2<br>19 Explain about the function returning a value with example<br>CO2<br>20 Explain about the function with example program<br>CO3<br>21 Explain about the dualoue box with example program<br>CO3<br>22 Benefits of ADO.NET.<br>CO5<br>CO5<br>CO5<br>CO5<br>CO5<br>CO5<br>CO5<br>CO5 |   |  | SECT                     | ION A (Domombor  | ing)              |                  |               |   |  |  |  |
| 1  Which is not an optional element of a sub procedure declaration?  (10) IT = 10 Minks)    2  A. Parameters.  B. Public.  C. Sub.  D. Statements.    2  Which method will return the number of elements in an array?  CO2    A. Dimension.  B. Length.  C. Number.  D. Size.    3  How do user terminate code execution using VB.NET method?.  CO2    A. Exit.  B. Close.  C. Close Sub.  D. Exit Sub.    4  Tick event is found only in the object  CO3    A. Form  B. Timer.  C. TextBox.  D. Label.    5  Which is not a common control event?  CO3    A. Click.  B. SingleClick.  C. DoubleClick.  D. MouseMove.    6  The CancelButton property belongs to which object?  CO3    A. Button  B. Form  C. Label  D. TextBox.    7  The CancelButton property belongs to which object?  CO5    A. virtual  B. local  C. session  D. global    9  How many files do a Config folder contains?  CO5    A. 3  B. 2  C. 5  D. 6    10  Dataset class has no direct   | Answei  | • ALL the Question   | SEC I                    | 10N – A (Keineinder  | (1                | 0 X 1 = 10 Marks | 9             |   |  |  |  |
| A. Parameters.  B. Public.  C. Sub.  D. Statements.    2  Which method will return the number of elements in an array?  CO2    A. Dimension.  B. Length.  C. Number.  D. Size.    3  How do user terminate code execution using VB.NET method?.  CO2    A. Exit.  B. Close.  C. Close Sub.  D. Exit Sub.    4  Tick event is found only in the object  CO3    A. Form.  B. Timer.  C. TextBox.  D. Label.    5  Which is not a common control event?  CO3    A. Click.  B. SingleClick.  C. DoubleClick.  D. MouseMove.    6  The CancelButton property belongs to which object?  CO3    A. Button  B. Form  C. Label  D. TextBox.    7  The CancelButton property belongs to which object?  CO3    A. button  B. Form  C. Label.  D. global    9  How many files do a Config folder contains?  CO5    A. 3  B. 2  C. 5  D. 6    10  Dataset class has no direct connection to a  | 1   | Which is not an or   | otional element of       | of a sub procedure decl  | laration?         |                  | 2             |   |  |  |  |
| 2  Which method will return the number of elements in an array?  CO2    A. Dimension.  B. Length.  C. Number.  D. Size.    3  How do user terminate code execution usin VB.NET method?.  CO2    A. Exit.  B. Close.  C. Close Sub.  D. Exit Sub.    4  Tick event is found only in the object  CO3    A. Form  B. Timer.  C. TexIBox.  D. Label.    5  Which is not a common control event?  CO3    A. Button.  B. Form.  C. Label.  D. TextBox.    6  The CancelButton property belongs to which object?  CO3    A. Button.  B. Form  C. Label  D. TextBox.    7  The CancelButton property belongs to vhich object?  CO3    A. Sutton.  B. Form  C. Label  D. TextBox.    8  Batton  B. local  C. session  D. global    9  How many files do a Config folder contains?  CO5  A. data Object.  B. data source.  C. table.  D. records    8  Batta source.  C. table.  D. records  SECTION - B (Remembering)  CO2    10  Define adray   |   | A. Parameters.   | B. Public.               | C. Sub.  | D. Statements.    |                  |               |   |  |  |  |
| A. Dimension.  B. Length.  C. Number.  D. Size.    3  How do user terminate code execution using VB.NET method?.  CO2    A. Exit.  B. Close.  C. Close Sub.  D. Exit Sub.    4  Tick event is found only in the object  CO3    A. Form.  B. Timer.  C. TextBox.  D. Label.    5  Which is not a common control event?  CO3    A. Click.  B. SingleClick.  C. DoubleClick.  D. MouseMove.    6  The CancelButton property belongs toobject.  CO3    A. Button  B. Form  C. Label.  D. TextBox.    7  The CancelButton property belongs to which object?  CO3    A. Sutton  B. Form  C. Label.  D. TextBox.    8  Each web application has its own set of cached, application anddata.  CO5    A. 3  B. 2  C. 5  D. 6    10  Dataset class has no direct connection to a  | 2   | Which method wil   | ll return the num        | ber of elements in an a  | array?            | CO               | 2             |   |  |  |  |
| 3  How do user terminate code execution using VB.NET method?.  CO2    A. Exit.  B. Close.  C. Close Sub.  D. Exit Sub.    4  Tick event is found only in the object  CO3    A. Form  B. Timer.  C. TextBox.  D. Label.    5  Which is not a common control event?  CO3    A. Click.  B. SingleClick.  C. DoubleClick.  D. MouseMove.    6  The CancelButton property belongs toobject.  CO3    A. Button.  B. Form.  C. Label.  D. TextBox.    7  The CancelButton property belongs to which object?  CO3    A. Button  B. Form  C. Label.  D. TextBox.    8  Each web application has its own set of cached, application anddata.  CO5    A. virtual  B. local  C. session  D. global    9  How many files do a Config folder contains?  CO5    A. data Object.  B. data source.  C. table.  D. records    SECTION – B (Remembering)  CO2  CO2  CO2    10  Dataset class has no direct connection to a   |   | A. Dimension.  | B. L                     | ength. C. N  | lumber. D. Size.  |                  |               |   |  |  |  |
| A. Exit.  B. Close.  C. Close Sub.  D. Exit Sub.    4  Tick event is found only in the object   | 3   | How do user termi  | inate code execu         | tion using VB.NET m  | ethod?.           | CO               | 2             |   |  |  |  |
| 4  Tick event is found only in the object  CO3    A. Form  B. Timer.  C. TextBox.  D. Label.    5  Which is not a common control event?  CO3    A. Click.  B. SingleClick.  C. DoubleClick.  D. MouseMove.    6  The CancelButton property belongs to object.  CO3    A. Button  B. Form.  C. Label.  D. TextBox.    7  The CancelButton property belongs to which object?  CO3    A. Button  B. Form  C. Label.  D. TextBox.    8  Each web application has its own set of cached, application anddata.  CO5    A. virtual  B. local  C. session  D. global    9  How many files do a Config folder contains?  CO5    A. data Object.  B. data source.  C. table.  D. records    SECTION – B (Remembering)  Sec 2 = 10 Marks)  11  Define polymorphism  CO2    10  Dataset class has no direct connection to a   |   | A. Exit.   | B. Close.                | C. Close Su  | b. D. Exit Sub    | ).               |               |   |  |  |  |
| A. Form  B. Timer.  C. TextBox.  D. Label.    5  Which is not a common control event?  CO3    A. Click.  B. SingleClick.  C. DoubleClick.  D. MouseMove.    6  The CancelButton property belongs toobject.  CO3    A. Button.  B. Form.  C. Label.  D. TextBox.    7  The CancelButton property belongs to which object?  CO3    A. Button  B. Form  C. Label  D. TextBox.    8  Each web application has its own set of cached, application anddata.  CO5    A. virtual  B. local  C. session  D. global    9  How many files do a Config folder contains?  CO5    A. 3  B.2  C.5  D.6    10  Dataset class has no direct connection to a  CO5    A. data Object.  B. data source.  C. table.  D. records    SECTION – B (Remembering)    Answer any FIVE Questions:  CO2  CO2    10  Define polymorphism  CO2  CO2    12  What do you mean by Function?  CO3  CO3    13  Define polymorphi  | 4   | Tick event is found  | d only in the obj        | ect  |                   | CO               | 3             |   |  |  |  |
| 5  Which is not a common control event?  CO3    A. Click.  B. SingleClick.  C. DoubleClick.  D. MouseMove.    6  The CancelButton property belongs toobject.  CO3    A. Button.  B. Form.  C. Label.  D. TextBox.    7  The CancelButton property belongs to which object?  CO3    A. Button  B. Form  C. Label  D. TextBox.    8  Each web application has its own set of cached, application anddata.  CO5    A. virtual  B. local  C. session  D. global    9  How many files do a Config folder contains?  CO5    A. 3  B. 2  C. 5  D. 6    10  Dataset class has no direct connection to a  CO5    A. data Object.  B. data source.  C. table.  D. records    SECTION – B (Remembering)    Answer any FIVE Questions:  (5 X 2 = 10 Marks)    11  Define Array  CO2    12  What do you mean by Function?  CO3    13  Define polymorphism  CO3    14  Define abstraction  CO3    15  D   |   | A. Form .B.  | Timer. C. T              | extBox. D. Label.  |                   |                  | _             |   |  |  |  |
| A. Click.  B. SingleClick.  C. DoubleClick.  D. MouseMove.    6  The CancelButton property belongs to object.  CO3    A. Button.  B. Form.  C. Label.  D. TextBox.    7  The CancelButton property belongs to which object?  CO3    A. Button  B. Form  C. Label  D. TextBox.    8  Each web application has its own set of cached, application anddata.  CO5    A. virtual  B. local  C. session  D. global    9  How many files do a Config folder contains?  CO5    A. 3  B. 2  C. 5  D. 6    10  Dataset class has no direct connection to a  | 5   | Which is not a con   | nmon control ev          | ent?   |                   | CO               | 3             |   |  |  |  |
| 6  The CancelButton property belongs to object.  CO3    A. Button.  B. Form.  C. Label.  D. TextBox.    7  The CancelButton property belongs to which object?  CO3    A. Button  B. Form.  C. Label.  D. TextBox.    8  Each web application has its own set of cached, application anddata.  CO5    A. virtual  B. local  C. session  D. global    9  How many files do a Config folder contains?  CO5    A. 3  B. 2  C. 5  D. 6    10  Dataset class has no direct connection to a  CO5    A. data Object.  B. data source.  C. table.  D. records    SECTION – B (Remembering)    Answer any FIVE Questions:  CO2    11  Define Array  CO2    12  What do you mean by Function?  CO3    13  Define polymorphism  CO3    14  Define abstraction  CO3    15  Display any four file operations  CO4    18  Discuses about the function returning a value with example  CO2    19  Explain the Recursive f   | <i>.</i>  | A. Click.  | B. SingleCh              | ick. C. DoubleC  | Click. D. MouseN  | love.            | •             |   |  |  |  |
| A. Button.  B. Form.  C. Label.  D. TextBox.    7  The CancelButton property belongs to which object?  CO3    A. Button  B. Form.  C. Label  D. TextBox.    8  Each web application has its own set of cached, application anddata.  CO5    A. virtual  B. local  C. session  D. global    9  How many files do a Config folder contains?  CO5    A. 3  B.2  C.5  D.6    10  Dataset class has no direct connection to a  CO5    A. data Object.  B. data source.  C. table.  D. records    SECTION – B (Remembering)    Answer any FIVE Questions:  (5 X 2 = 10 Marks)    11  Define Array  CO2    12  What do you mean by Function?  CO3    13  Define polymorphism  CO3    14  Define polymorphism  CO3    15  Display any four file operations  CO3    16  Expand: ADO, ASP  CO5    17  What is SQL  CO5    18  Discuses about the function returning a value with example  CO2   | 6   | The CancelButton   | property belong          | s to object.   |                   | CO               | 3             |   |  |  |  |
| A. Button  B. Form  C. Label  D. TextBox    8  Each web application has its own set of cached, application anddata.  CO5    A. virtual  B. local  C. session  D. global    9  How many files do a Config folder contains?  CO5    A. 3  B. 2  C. 5  D. 6    10  Dataset class has no direct connection to a  CO5    A. data Object.  B. data source.  C. table.  D. records    SECTION – B (Remembering)    Answer any FIVE Questions:  (5 X 2 = 10 Marks)    11  Define Array  CO2    12  What do you mean by Function?  CO3    13  Define polymorphism  CO3    14  Define polymorphism  CO3    15  Display any four file operations  CO3    16  Expand: ADO, ASP  CO5    SECTION – C (Understanding)    Answer any THREE Questions:  (3 X 6= 18 Marks)    18  Discuses about the function returning a value with example  CO2    19  Explain about file handling with example program.  CO3    20   | 7   | A. Button.   | B. Form.                 | C. Label. D. T   | extBox.           | 00               | •             |   |  |  |  |
| A. Button  B. Form  C. Label  D. 1extBox    8  Each web application has its own set of cached, application anddata.  CO5    A. virtual  B. local  C. session  D. global    9  How many files do a Config folder contains?  CO5    A. 3  B. 2  C. 5  D. 6    10  Dataset class has no direct connection to a  CO5    A. data Object.  B. data source.  C. table.  D. records    SECTION – B (Remembering)    Answer any FIVE Questions:  (5 X 2 = 10 Marks)    11  Define Array  CO2    12  What do you mean by Function?  CO3    13  Define polymorphism  CO3    14  Define abstraction  CO3    15  Display any four file operations  CO5    16  Expand: ADO, ASP  CO5    17  What is SQL  CO2    18  Discuses about the function returming a value with example  CO2    19  Explain about file handling with example program.  CO3    20  Explain about Menus with example program.  CO5   | 7   | The CancelButton   | property belong          | s to which object?   |                   | CO               | 3             |   |  |  |  |
| 8  Each web application has its own set of cached, application anddata.  COS    A. virtual  B. local  C. session  D. global    9  How many files do a Config folder contains?  COS    A. 3  B. 2  C. 5  D. 6    10  Dataset class has no direct connection to a  COS    A. data Object.  B. data source.  C. table.  D. records    SECTION – B (Remembering)    Answer any FIVE Questions:  (5 X 2 = 10 Marks)    11  Define Array  CO2    12  What do you mean by Function?  CO3    13  Define polymorphism  CO3    14  Define abstraction  CO3    15  Display any four file operations  CO5    SECTION – C (Understanding)    Answer any THREE Questions:    (3 X 6= 18 Marks)    18  Discuses about the function returning a value with example  CO2    19  Explain about Menus with example program  CO5    SECTION – D (Applying)    Answer any ONE Question:  (IX 12= 12 Marks)    21 <t< td=""><td>0</td><td>A. Button</td><td>B. Form</td><td>C. Label D. I</td><td>extBox</td><td></td><td>_</td></t<>   | 0   | A. Button  | B. Form                  | C. Label D. I  | extBox            |                  | _             |   |  |  |  |
| 9  How many files do a Config folder contains?  CO5    A. 3  B. 2  C. 5  D. 6    10  Dataset class has no direct connection to a  CO5    A. data Object.  B. data source.  C. table.  D. records    SECTION – B (Remembering)    Answer any FIVE Questions:  (5 X 2 = 10 Marks)    11  Define Array  CO2    12  What do you mean by Function?  CO3    13  Define polymorphism  CO3    14  Define abstraction  CO3    15  Display any four file operations  CO5    16  Expand: ADO, ASP  CO5    17  What is SQL  CO5    SECTION – C (Understanding)    Answer any THREE Questions:  (3 X 6= 18 Marks)    18  Discues about the function returning a value with example  CO2    20  Explain about Menus with example program.  CO3    21  Explain about Menus with example program.  CO5    22  Benefits of ADO .NET.  CO5    SECTION – D (Applying) <td argument<="" array="" as="" colspaneabout="" function="" pasing="" td="" the=""><td>0</td><td>Lach web applicat</td><td>D local</td><td>C application</td><td>Ion andua</td><td></td><td>3</td></td>   | <td>0</td> <td>Lach web applicat</td> <td>D local</td> <td>C application</td> <td>Ion andua</td> <td></td> <td>3</td> | 0  | Lach web applicat        | D local  | C application     | Ion andua        |               | 3 |  |  |  |
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