



### FIRST INTERNAL ASSESSMENT

Sem: V  
Date: 12/09/18

Sub: Object Oriented Programming using C++  
Time: 03PM-04PM

Sub. Code: 15EC562  
Max. Marks: 25

Note: Answer two full questions, draw sketches wherever necessary.

| Q. No     | Description of Questions  | Marks | CO      | RBT LEVEL |
|-----------|---|-------|---------|-----------|
| 1         | a Explain the structure of C++ program.   | 6     | C305B.1 | L1,L2     |
|           | b Explain applications of C++ programming language.   | 7     | C305B.1 | L1,L2     |
| <b>OR</b> |   |       |         |           |
| 2         | a List Different data types used in C++. Give example for each data type.   | 6     | C305B.1 | L1,L2     |
|           | b What are variables? With syntax explain declaration and initialization of variables in C++.   | 7     | C305B.1 | L1,L2     |
| 3         | a Explain different types of operators used in C++.   | 6     | C305B.1 | L1,L2     |
|           | b What are Control structures? Write a simple C++ program to demonstrate for loop.  | 6     | C305B.1 | L1,L2     |
| <b>OR</b> |   |       |         |           |
| 4         | a How objects are passed as parameters to the member functions of a class? Discuss with example.  | 6     | C305B.2 | L1,L2     |
|           | b What is a class? Write a program to create a class called employee consisting of name, designation, id and salary as class variables. Using this class print 1 Employee information by reading the information of employee. | 6     | C305B.2 | L1,L2,L3  |

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IA - I SCHEME OF EVALUATION

| Sem : V |     | Subject : Object oriented programming in c++   | Sub Code : 15EC562 | Date : 12/09/18 |           |  |
|---------|-----|--|--------------------|-----------------|-----------|--|
| Q. No.  | Bit | Description  | Marks              | CO's            | RBT LEVEL |  |
| 1       | a)  | <p>Structure of c++ program</p> <p>Explanation for Includes Files, class Definition Member Function, Main function program</p>   | 6                  | (305B)          | L1, L2    |  |
| 1       | b)  | <p>Applications of c++ programming</p> <ol style="list-style-type: none"> <li>1) Real time Systems</li> <li>2) Simulation &amp; modelling</li> <li>3) object oriented databan</li> <li>4) Hypertext, hyper media &amp; expertent</li> <li>5) AI &amp; expert Systems</li> <li>6) Mureal Network &amp; Parallel programming</li> <li>7) Decision Support &amp; office automation</li> <li>8) CIM/CAM/CAD SIM</li> </ol> | 7                  | C305B.1         | L1, L2    |  |

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**IA - I SCHEME OF EVALUATION**

| Sem : V |     | Subject : OOPs  | Sub Code : 15EC562 | Date : 12/09/18 |         |           |
|---------|-----|---|--------------------|-----------------|---------|-----------|
| Q. No.  | Bit | Description   |                    | Marks           | CO's    | RBT LEVEL |
| 2       | a)  | <p>Different Datatypes used in c++</p> <p>① User defined Datatype (A)</p> <p>② Built in type (B)</p> <p>③ Derived type (C)</p> <div style="display: flex; justify-content: space-around;"> <div style="text-align: left;"> <p>A</p> <ul style="list-style-type: none"> <li>Structure</li> <li>Union</li> <li>class</li> <li>Enumeration</li> </ul> </div> <div style="text-align: left;"> <p>B</p> <ul style="list-style-type: none"> <li>Integer                             <ul style="list-style-type: none"> <li>int</li> <li>char</li> </ul> </li> <li>void</li> <li>Floating type                             <ul style="list-style-type: none"> <li>float</li> <li>double</li> </ul> </li> </ul> </div> </div> <div style="text-align: left; margin-top: 20px;"> <p>C</p> <ul style="list-style-type: none"> <li>array</li> <li>Function</li> <li>Pointer</li> <li>Reference</li> </ul> </div> |                    | 6               | C305B.1 | L1, L2    |
| 2       | b)  | <p>Variables Initialization &amp; Declaration</p> <p>Normally variables are initialized to the letter/word which is not a keyword</p> <p>There 2 types</p> <p>① Static Initialization</p> <p>② Dynamic</p> <p>Variables can be also accessed through the reference</p>  |                    | 7               | C305B.1 | L1, L2    |

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|----------------|-----|--|---------------------------|------------------------|-----------|--|
| Q. No.         | Bit | Description  | Marks                     | CO's                   | RBT LEVEL |  |
| 3              | a   | <p>Different types operators used in C++</p> <ol style="list-style-type: none"> <li>1) :: Scope resolution operator</li> <li>2) ::* pointer to member declarator</li> <li>3) -&gt;* pointer to member operator</li> <li>4) .* " " "</li> <li>5) delete -&gt; memory deallocate operator</li> <li>6) endl -&gt; Line feed operator</li> <li>7) new -&gt; memory allocation operator</li> <li>8) setw -&gt; Field width operator.</li> </ol> | 6                         | C305B1                 | L1, L2    |  |
| 3              | b   | <p>Control structure of C++ programming</p> <pre> graph LR     CS[Control Structure] --&gt; S[Selection]     CS --&gt; Seq[Sequence Statement]     CS --&gt; L[Loop]     S --&gt; If[If-Else Statement]     S --&gt; Sw[Switch]     L --&gt; DW[do-while]     L --&gt; Wh[while]     L --&gt; For[For] </pre> <p>Example program</p>   | 6                         | C305B1                 | L1, L2    |  |

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|---------|-----|--|--------------------|-----------------|-----------|--|
| Q. No.  | Bit | Description  | Marks              | CO's            | RBT LEVEL |  |
| 4       | a   | <p>Passing parameter to the function</p> <pre> type function-name (argument-dist); float volume (int x, float y, float z); void swap (int &amp;a, int &amp;b); int &amp; max (int &amp;x, int &amp;y); </pre>  | 6                  | C305B.2         | L1, L2    |  |
| 4       | b   | <p>Class - It is a way to bind the data &amp; its associated function together.</p> <p><u>Class Employee:-</u></p> <pre> #include &lt;iostream&gt; using namespace std; class Employee {     char name[30];     char designation[20];     int id;     int sal; public:     void getData(void);     void display(void); }; </pre> <pre> void Employee::getData(void) {     cout &lt;&lt; "Enter name:";     cin &gt;&gt; name;     cout &lt;&lt; "Enter Designation";     cin &gt;&gt; designation;     cout &lt;&lt; "Enter id";     cin &gt;&gt; id;     cout &lt;&lt; "Enter salary";     cin &gt;&gt; sal; } void Employee::display(void) {     cout &lt;&lt; name;     cout &lt;&lt; designation;     cout &lt;&lt; id;     cout &lt;&lt; sal; } int main {     Employee E;     E.getData();     E.display();     return 0; } </pre> | 6                  | C305B.2         | L1, L2    |  |

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