**1,**

1. Base-class constructors are not inherited by derived classes.

Ans : True

(2) An is-a relationship is implemented via composition.

Ans : False, The is-a relationship represents inheritance instead of composition.

(3) A Student class has an is-a relationship with the Faculty and Course classes.

Ans : False, A Student class does not inherit the Faculty and Course classed.

(4) Private members of a private base class are inaccessible to the derived class.

Ans : True

(5) A base class’s protected members can be accessed in the base-class definition, in derived-class definitions and in friends of the base class and its derived classes.

Ans : True

**2,**

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| Student |

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| --- |
| UndergraduateStudent |

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| --- |
| GraduateStudent |

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| --- |
| Freshman |

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| --- |
| Sophomore |

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| --- |
| Junior |

|  |
| --- |
| Senior |

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| --- |
| UndergraduateStudent |

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| --- |
| DoctoralStudent |

Freshman, sophomore, junior and senior are undergraduatestudents, and ungraduatestudent is a student. Doctoralstudent and masterstudent are graduatestudents, and graduatestudent is a student.