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OOADP Exam 2010 Answers
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1. (5) D
2. (5) C
3. (5) C
4. (5)
         Question4
     - x: int
    + getX(): int
     +setX(y:int)
5. (5)
   public class HelloWorld {
         public static void main(String[] args) {
                System.out.println("Hello world!");
         }
6. (5)
   -5d-5
   -2
   -2
7. (5)
   5 0
   42
   3 4
8. (5)
   behaviour, state and identity (in any order).
9. (5)
   (a) public (+)
   (b) getY(int)
   (c) getY
   (d) int
   (e) x : int
10. (5)
   Α
11. (5)
   0 0
12.(5)
   user, article, system, subscriber information, journal, method of payment,
   payment, credit card, organisational account number
13. (5)
   a. UML class diagram
   b. That this is an aggregation.
   c. 12 or more
   d. 1 or more
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e. Nothing, provided there is at least one degree programme to which a
   course belongs.
14. (5)
   a. subclass
   b. d
   c. f
   d. No – c is private so it is only visible within objects of class B.
15. (5)
   Line 5, because the instance variable x is final and has already been
   assigned a value.
16. (5)
   XXX = meth1, ZZZ = meth2, YYY = meth3
17. (10)
   a. A sequence diagram.
   b. A found message.
   c. Asynchronous message.
   d. A synchronous message.
   e. If x is equal to 2.
   f. An object.
   g. An object.
   h. A class.
   i. Don't know - different threads.
   i. msg3
18. (10)
   a. A UML class diagram
   b. ArrayList and Order
   c. AbstractList
   d. equals and add from the Collection interface; get from the List interface;
   get in AbstractList abstract class.
   e. That AbstractList implements the List interface.
   f. That List is a subinterface of Collection, i.e., that List inherits from
   Collection.
   g. That Order requires or uses the List interface.
   h. That ArrayList is a subclass of AbstractList.
   i. No. Because it contains an abstract method, get.
   j. ArrayList.
19. (10)
   AAAAAA = DDDDDDD = implements Shape
   BBBBBBB = EEEEEEEE = display
   CCCCCCC = FOO
   FFFFFFF = BAR
   GGGGGGG = HHHHHHHH = <Shape>
20. (10)
   Barp
   Blip
   Invalid
   Invalid
   Boop
```

21. (10)

a. Activity diagram

b. A = Initial node or start marker

B = fork, C = action, D = flow or edge, E = join, F = activity final or stop marker, G = merge, H = decision diamond, I = guard

22. (10)



