Last & Fin	rstname:	Group:	Date:
OOP Sho	ort Test 3		
Multiple (Identify the	Choice c choice that best completes the statemen	t or answers	s the question.
1.	CRC in CRC card stands for a. classes, relationships, refactoring b. classes, redundancy, composition	c. d.	classes, relationships, collaborators composition, refactoring, collaboration
2.	Interface implementation is depicted in a. b.	a UML diaş c. d.	gram using the symbol:
3.	Aggregation is depicted in a UML diag a. b.	ram using th c. d.	ne symbol:
4.	 Each method specification consists of: a. an invariant, a precondition (option and a postcondition. b. a precondition (optional), a modificulation (optional), and a postcondition 	es d.	all of the above none of the above
Multiple F Identify on	Response e or more choices that best complete the	statement o	r answer the question.
5.	Assertions can be placed in: a. Class invariant, modifies clause, m pre and/or postcondition	ethod c.	Method postcondition, loop invariant,
	b. Method precondition, class invaria	ant d.	Loop invariant, modifies clause
6.	Design by contract asks thata. Designers of classes have precondib. Method is required to ensure: postcondition & class invariant (at	d.	Classes have postconditions and preconditions Method caller guarantees: precondition & class invariant (at time of method call)
7.	of method return)		,
	a. contains the code for the basic algo	orithm c.	can also contain code that throws an exception if something unusual happens
	b. contains only code for dealing with exception	the d.	tells what to do when an execption occurs
8.	The catch block parameter does: a. Specify the type of thrown exception object that the catch block can catch	h	None of these
	b. Contain a <i>finally</i> clause	d.	Provide a name on which it can operate

ID: A

in the catch block

Last	& Fir	estname:		
	9.	The most important things about an exception a. The <i>catch</i> block b. Its type	c.	ct are: The <i>finally</i> clause The message it carries
	10.	An event listenera. Always has static methodsb. Belongs to a class that is provided by the application programmer		It is notified when event happens Belongs to a class that is provided by the system programmer
Comp Comp		n each statement.		
	11.	Assertions are based on	nd certain program	
	12.	Inner classes may be:		
		·		classes
				classes
				classes
				classes
Short	Ans	wer		
	13.	Define the <i>composition</i> relationship		
	14.	Define dependency relationship		

15. Describe the ActionListener interface (i.e. write the methods it contains)

ID: A

OOP Short Test 3 Answer Section

MATCHING

5.	ANS:	B, C	PTS:	1				
12.	ANS:							
	Static member classes							
	Member classes							
	Local classes							
	Anonymous classes							
	PTS:	1						
6	ANS:		PTS:	1				
	ANS:		PTS:					
	ANS:	*	PTS:					
	ANS:		PTS:					
9.	ANS:	B, D	PTS:	1				
11.	ANS:							
	logic							
	notatio	ons						
	PTS:	1						
1.	ANS:	C	PTS:	1				
	ANS:		PTS:					
	ANS:		PTS:					
	ANS:		PTS:					
т.	111 1 10.	ע	115.	1				

SHORT ANSWER

13. ANS:

14. ANS:

PTS: 1

PTS: 1

A form of aggregation with strong ownership and coincident lifetimes. The parts cannot survive the whole/aggregate.

```
A relationship between two model elements where a change in one may cause a change in the other.

Non-structural, "using" relationship

PTS: 1

15. ANS:

public interface ActionListener {

void actionPerformed(ActionEvent event);
}
```

Multiple I Identify or	Response ne or more choices that best complete the statement	ent o	or answer the question.
1.	The most important things about an exception a. Its type b. The <i>finally</i> clause	obje c. d.	ct are: The message it carries The <i>catch</i> block
2.	Assertions can be placed in: a. Loop invariant, modifies clause b. Method postcondition, loop invariant,	c. d.	Method precondition, class invariant Class invariant, modifies clause, method pre and/or postcondition
3.	 Design by contract asks that a. Classes have postconditions and preconditions b. Designers of classes have preconditions 	c. d.	Method caller guarantees: precondition & class invariant (at time of method call) Method is required to ensure: postcondition & class invariant (at time of method return)
4.	An event listenera. Always has static methodsb. Belongs to a class that is provided by the system programmer	c. d.	It is notified when event happens Belongs to a class that is provided by the application programmer
5.	 A <i>try</i> block a. can also contain code that throws an exception if something unusual happens b. contains only code for dealing with the exception 	c. d.	tells what to do when an execption occurs contains the code for the basic algorithm
6.	The catch block parameter does:a. Provide a name on which it can operate in the catch blockb. Contain a <i>finally</i> clause	c. d.	None of these Specify the type of thrown exception
Completio Complete	on each statement.		object that the catch block can catch
7.	Inner classes may be:		classes classes classes classes
8.	Assertions are based on	aı	nd certain program

Last & Firstname: _____ Group: _____ Date: _____

ID: B

Short Answer

- 9. Define the *composition* relationship
- 10. Describe the ActionListener interface (i.e. write the methods it contains)
- 11. Define dependency relationship

Multiple Choice

Identify the choice that best completes the statement or answers the question.

- 12. Each *method specification* consists of:
 - a. all of the above
 - b. an invariant, a precondition (optional), and a postcondition.
- c. none of the above
- d. a precondition (optional), a modifies clause (optional), and a postcondition.
- 13. Aggregation is depicted in a UML diagram using the symbol:
 - a.

c. -----

b. -----

- d.
- 14. CRC in CRC card stands for
 - a. composition, refactoring, collaboration
- c. classes, relationships, refactoring
- b. classes, redundancy, composition
- d. classes, relationships, collaborators
- 15. Interface implementation is depicted in a UML diagram using the symbol:
 - a. -----

c.

b. ---->

d.

OOP Short Test 3 Answer Section

MULTIPLE RESPONSE

1.	ANS:	A, C	PTS:	1
2.	ANS:	B, C	PTS:	1
3.	ANS:	C, D	PTS:	1
4.	ANS:	C, D	PTS:	1
5.	ANS:	A, D	PTS:	1
6.	ANS:	A. D	PTS:	1

COMPLETION

7. ANS:

Static member classes

Member classes

Local classes

Anonymous classes

PTS: 1

8. ANS:

logic

notations

PTS: 1

SHORT ANSWER

9. ANS:

A form of aggregation with strong ownership and coincident lifetimes. The parts cannot survive the whole/aggregate.

```
PTS: 1

10. ANS:
    public interface ActionListener {
        void actionPerformed(ActionEvent event);
    }

PTS: 1
```

11. ANS:

A relationship between two model elements where a change in one may cause a change in the other. Non-structural, "using" relationship

PTS: 1

MULTIPLE CHOICE

12.	ANS:	D	PTS:	1
13.	ANS:	A	PTS:	1
14.	ANS:	D	PTS:	1
15.	ANS:	A	PTS:	1