

235. Which of the following best describes the relationship between encapsulation and inheritance?

- A. Encapsulation and inheritance are two different terms for the same thing.
- B. Encapsulation is a broader concept that includes inheritance.
- C. Inheritance is a broader concept that includes encapsulation.
- D. Encapsulation and inheritance are unrelated concepts.

236. Which type of polymorphism is resolved at compile-time?

- A. Runtime polymorphism
- B. Dynamic polymorphism
- C. Method overloading
- D. Subtyping

237. Which type of polymorphism allows objects of a subclass to be treated as objects of its superclass?

- A. Compile-time polymorphism
- B. Dynamic polymorphism
- C. Subtyping
- D. Method overriding

238. Which of the following is NOT a form of polymorphism?

- A. Method overloading
- B. Method overriding
- C. Subclassing
- D. Interface-based programming

239. Which type of polymorphism allows an object of a subclass to be used in place of an object of its superclass?

- A. Subtyping
- B. Method overloading
- C. Method overriding
- D. Interface-based programming

240. Which of the following is correct?

- A. Virtual functions must be members of some class and virtual function must be defined in the base class
- B. Virtual functions cannot be static members.
- C. Virtual Functions are accessed through object pointers.
- D. All of the Above

ANSWER SHEET

1.A	2.D	3.B	4.D	5.D	6.C	7.D	8.B	9.A	10.B
11.C	12.C	13.C	14.A	15.C	16.B	17.B	18.B	19.C	20.A
21.B	22.A	23.B	24.B	25.D	26.C	27.A	28.B	29.A	30.C
31.B	32.A	33.D	34.C	35.C	36.A	37.D	38.D	39.C	40.D
41.D	42.A	43.C	44.C	45.D	46.A	47.D	48.C	49.D	50.A
51.B	52.D	53.A	54.A	55.B	56.C	57.B	58.C	59.A	60.D

61.A	62.D	63.D	64.D	65.D	66.A	67.C	68.A	69.B	70.C
71.A	72.B	73.D	74.D	75.A	76.C	77.A	78.C	79.B	80.D
81.A	82.A	83.D	84.D	85.B	86.A	87.B	88.D	89.C	90.A
91.B	92.D	93.B	94.D	95.D	96.D	97.C	98.C	99.B	100.A
101.D	102.D	103.B	104.A	105.A	106.A	107.A	108.A	109.B	110.C
111.D	112.B	113.B	114.C	115.B	116.B	117.C	118.C	119.A	120.D
121.A	122.D	123.C	124.B	125.C	126.B	127.A	128.A	129.B	130.A
131.A	132.A	133.B	134.B	135.B	136.A	137.A	138.B	139.A	140.D
141.A	142.A	143.B	144.C	145.A	146.C	147.B	148.C	149.A	150.B
151.A	152.C	153.D	154.A	155.D	156.D	157.D	158.D	159.D	160.B
161.D	162.A	163.A	164.B	165.C	166.C	167.D	168.B	169.C	170.A
171.D	172.D	173.D	174.A	175.B	176.A	177.C	178.A	179.B	180.A
181.B	182.A	183.B	184.A	185.B	186.A	187.C	188.A	189.B	190.A
191.A	192.D	193.D	194.A	195.C	196.B	197.A	198.B	199.C	200.C
201.A	202.D	203.C	204.A	205.C	206.B	207.A	208.B	209.C	210.A
211.A	212.A	213.A	214.A	215.B	216.D	217.D	218.B	219.D	220.D
221.A	222.A	223.C	224.A	225.A	226.D	227.D	228.A	229.C	230.C
231.B	232.D	233.A	234.A	235.B	236.C	237.D	238.C	239.A	240.D

REFERENCES

- [1] E Balagurusamy, Programming in ANSI C. Tata McGraw-Hill, 2008.
- [2] E Balagurusamy, Object Oriented Programming with C++. Tata McGraw-Hill, 2008.
- [3] "Control Statements in C - SitePoint," www.sitepoint.com, Sep. 06, 2012. <https://www.sitepoint.com/control-statements-in-c-part-1/>
- [4] "C - Arrays," [TutorialsPoint.com](http://www.tutorialspoint.com), 2019. https://www.tutorialspoint.com/cprogramming/c_arrays.htm
- [5] "Pointers in C Programming with Examples," www.guru99.com. <https://www.guru99.com/c-pointers.html>
- [6] "Structures in C," GeeksforGeeks, Oct. 12, 2014. <https://www.geeksforgeeks.org/structures-c/>
- [7] "C - Unions," www.tutorialspoint.com. https://www.tutorialspoint.com/cprogramming/c_unions.htm
- [8] "Call by Value and Call by Reference in C - javatpoint," www.javatpoint.com. <https://www.javatpoint.com/call-by-value-and-call-by-reference-in-c>
- [9] "Structure Pointer in C - javatpoint," www.javatpoint.com. <https://www.javatpoint.com/structure-pointer-in-c>
- [10] A. Beri, "Random Access File in C," Scaler Topics, Apr. 12, 2022. <https://www.scaler.com/topics/c/random-access-file-in-c/>
- [11] "C++ Programming Questions and Answers," www.indiabix.com. <http://www.indiabix.com/cpp-programming/questions-and-answers>
- [12] "Pure Virtual Functions and Abstract Classes in C++," GeeksforGeeks, Jul. 15, 2014. <https://www.geeksforgeeks.org/pure-virtual-functions-and-abstract-classes/>
- [13] "Formatted vs Unformatted I/O Function in C (Differences)," Codesansar. <https://www.codesansar.com/c-programming/difference-between-formatted-unformatted-input-output-functions.htm>
- [14] "C++ Formatted IO | C Plus Plus Programming Language Tutorials," www.btechsmartclass.com. <http://www.btechsmartclass.com/cpp-programming/CPP-formatted-IO.php>
- [15] "Formatted I/O in C++," GeeksforGeeks, Sep. 10, 2019. <https://www.geeksforgeeks.org/formatted-i-o-in-c/>