

(6 pages)

Reg. No. :

Code No. : 9444

Sub. Code : HCSM 22

M.Sc. (CBCS) DEGREE EXAMINATION, APRIL 2015.

Second Semester

Computer Science

OBJECT ORIENTED SYSTEM DEVELOPMENT

(For those who joined in July 2012 onwards)

Time : Three hours

Maximum : 75 marks

PART A — (10 × 1 = 10 marks)

Answer ALL questions.

Choose the correct answer :

1. Combination of data and logic that represents some real world entity is called as _____.
(a) object (b) method
(c) polymorphism (d) inheritance
2. _____ represents the relationships between objects and classes.
(a) polymorphism (b) association
(c) encapsulation (d) metaclasses

3. The process of looking for patterns to document is called _____.
(a) message (b) framework
(c) pattern mining (d) none
4. A _____ can be viewed as a collection of procedures or behaviours that, taken together, reflect the behaviour of a system overtime.
(a) model (b) static model
(c) dynamic model (d) none
5. _____ is the process of transforming a problem definition from a fuzzy set of facts and myths into a coherent statement of a system's requirements.
(a) analysis (b) design
(c) system (d) none
6. Expand CRC _____.
(a) class, review and command
(b) cathod ray cube
(c) class, responsibilities and collaborators
(d) none



7. The rules and semantics of the UML are expressed in English, in a form known as _____.

- (a) object oriented language
- (b) object constraint language
- (c) high level language
- (d) middle level language

8. The method that destroys instances, is called _____.

- (a) constructor (b) destructor
- (c) class (d) object

9. The testing is done by select a group of actual users of the system is called _____.

- (a) white box testing
- (b) black box testing
- (c) beta testing
- (d) alpha testing

10. Validation is _____.

- (a) quality assurance
- (b) maintenance method
- (c) user satisfaction
- (d) none of the above

Page 3

Code No. : 9444

PART B — (5 × 5 = 25 marks)

Answer ALL questions choosing either (a) or (b), each answer should not exceed 250 words.

11. (a) Explain Rapid application development.

Or

(b) Write short note on object oriented system development methodology.

12. (a) Write short note on use case diagram.

Or

(b) Draw a sequence diagram for telephone call.

13. (a) What are the guidelines should follow for identifying super sub relationships in the application?

Or

(b) What are guidelines should be followed for naming a class?

14. (a) What is coupling? What are the different types of coupling available?

Or

(b) Write short note on UML-operation presentation.

Page 4

Code No. : 9444

[P.T.O.]



15. (a) What is continuous testing?

Or

(b) What is white box testing?

PART C — (5 × 8 = 40 marks)

Answer ALL questions choosing either (a) or (b),
each answer should not exceed 600 words.

16. (a) Explain in detail the essential pieces of
object oriented system development life
cycle.

Or

(b) Explain waterfall SDLC.

17. (a) Explain briefly about Booch Methodologies.

Or

(b) Discuss about any four UML diagrams.

18. (a) Explain the noun phrase approach with an
example.

Or

(b) Write short note on identifying object
relationships, attributes and methods.

Page 5 Code No. : 9444

19. (a) Write short notes on the following :

(i) Database models

(ii) database schema

(iii) data definition language.

Or

(b) Describe the macro and micro processes of
view layer design.

20. (a) List out the impact of object orientation on
testing.

Or

(b) What is test plan? Explain.

Page 6 Code No. : 9444

