

(6 pages)

Reg. No. :

Code No. : 41296 E Sub. Code : JMCA 51

B.C.A. (CBCS) DEGREE EXAMINATION,
NOVEMBER 2018

Fifth Semester

Computer Application – Main

SOFTWARE ENGINEERING

(For those who joined in July 2016 onwards)

Time : Three hours

Maximum : 75 marks

PART A — (10 × 1 = 10 marks)

Answer ALL questions.

Choose the correct answer :

1. _____ is the process of creating a representing of the domain or the software
- (a) Modelling
 - (b) Design
 - (c) Programming
 - (d) Deployment

2. _____ is defined using the lengths of two axes the longer one is called the major axis and the shorter one the minor axis

- (a) Regular polygon
- (b) Arbitrary polygon
- (c) Ellipse
- (d) Rotate

3. A _____ is a label that describes the criteria used into specialize a superclass into two or more subclasses

- (a) Generalization
- (b) Instance
- (c) Aggregation
- (d) discriminator

4. _____ is measured as the average amount of time that a server is running and available to respond to user

- (a) Reliability (b) Availability
- (c) Resource (d) Recovery



5. _____ is a detailed language with many built in keywords designed to formally specify constraints in software models
- (a) OCL (b) XML
(c) WML (d) UML
6. MVC stands for
- (a) Mode view controller
(b) Model video controller
(c) Model view controller
(d) Mode video controller
7. A _____ diagram is another way of expressing dynamic information about a system
- (a) Activity diagram
(b) state diagram
(c) collaboration diagram
(d) sequence diagram
8. A _____ is a situation where two or more threads are stopped waiting for each other to do something
- (a) Livelock (b) critical races
(c) Deadlock (d) none

9. The _____ approach decisions are made by consensus this can lead to more creative solutions
- (a) egoless approach
(b) hierarchical approach
(c) multi process approach
(d) single process approach
10. A _____ chart is used to graphically present the start and end dates of each software engineering task
- (a) earned value chart
(b) Gantt chart
(c) PERT chart
(d) Tracking chart

PART B — (5 × 5 = 25 marks)

Answer ALL questions, choosing either (a) or (b).

Each answer should not exceed 250 words.

11. (a) What is modelling?

Or

- (b) Explain the following
- (i) methods
(ii) operations
(iii) polymorphism?



12. (a) Write about requirements?

Or

(b) Describe in detail about observation.

13. (a) Explain about the Directionality in associations.

Or

(b) Explain the Collaboration diagrams.

14. (a) Discuss about Routine call coupling.

Or

(b) What are the different types of cohesion?

15. (a) Discuss about spiral model.

Or

(b) What is Gantt charts?

PART C — (5 × 8 = 40 marks)

Answer ALL questions, choosing either (a) or (b).

Each answer should not exceed 600 words.

16. (a) Explain about the software quality.

Or

(b) Discuss briefly about Risk in software engineering in detail.

Page 5 Code No. : 41296 E

17. (a) Explain about Interviewing.

Or

(b) Describe about the Non functional requirements.

18. (a) Discuss about Generalizations.

Or

(b) Give a brief note on Instance diagrams.

19. (a) Explain about the Design for flexibility.

Or

(b) Give a brief note on Broker architectural pattern.

20. (a) Explain the Blackbox testing.

Or

(b) Explain about phased release model.

Page 6 Code No. : 41296 E

