(7 pages)	Reg. No. :	2.	What are the featu	res of software code?
Code No. : 6183	Sub. Code: WCAM 22	•	(a) Simplicity(c) Modularity	(b) Accessibility (d) Security
M.C.A. (CBCS)	DEGREE EXAMINATION, APRIL 2024	3.	Choose an international below	al software quality from given
Second Semester			(a) scalability	(b) usability
Computer Applications – Core			(c) reusability	(d) reliability
ADVANCED SOFTWARE ENGINEERING		4.	Which one of the requirement engine	e following is not a step of eering?
(For those who joined in July 2023 onwards)			(a) elicitation	(b) design
Time: Three hours	Maximum : 75 marks		(c) analysis	(d) documentation
PART A — $(15 \times 1 = 15 \text{ marks})$		5.	is no	ot among the eight principles
Answer ALL questions.			followed by the software code of ethics and professional practice.	
Choose the corre	ect answer:		(a) product	(b) environment
1. Which of these software engineering activities are not a part of software processes?			(c) public	(d) profession
(a) Software dependence		6.	is not a fundamental activity for software processes in software development.	
(b) Software development			(a) Evolution	
(c) Software validation			(b) Design and imp	lementation

(d) Software specification

owing is not a step of (b) design (d) documentation ong the eight principles are code of ethics and b) environment d) profession undamental activity for ware development. tation (c) Validation (d) Verification Page 2 Code No.: 6183

Which of the following is not an advantage of software reuse?	10. Which of the following is not a part of software evolution?
(a) Lower costs	(a) Re-engineering activities
(b) Faster software development	(b) Maintenance activities
(c) High effectiveness	(c) Development activities
(d) lower risks	(d) Negotiating with client
In the Analysis phase, the development of the	11. The importance of software design can be summarized in a single word which is ————
dependent of the goals and objectives of the project.	(a) Efficiency (b) Accuracy
(a) documentation	(c) Quality (d) Complexity
(b) flowchart	12. Which of the following is a design pattern?
(c) program specification	(a) Behavioral
(d) design	(b) Structural
(a) design	(c) Abstract Factory
into a series of commands that a computer will use	(d) All of the mentioned
to perform that task.	13. White Box techniques are also classified as
(a) Project design	
(b) Installation	(a) Design based testing
	(b) Structural testing
(c) Systems analysis	(c) Error guessing technique
(d) Programming	(d) Unit testing
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	[P.T.O.]

- 14. Software debugging is known as ____
 - (a) identifying the task to be computerized
 - (b) creating program code
 - (c) creating the algorithm
 - (d) finding and correcting errors in the program code
- 15. What type of software testing is generally used in software maintenance?
 - (a) Regression Testing
 - (b) System Testing
 - (c) Integration Testing
 - (d) Unit Testing

PART B —
$$(5 \times 4 = 20 \text{ marks})$$

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

Each answer should not exceed 250 words.

16. (a) Discover the uses of software problem.

Or

- (b) Identify the characteristics of a software process.
- 17. (a) Recall the purpose of feasibility studies.

Or

(b) Determine the requirement validation of software.

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18. (a) Write a note on risk management.

Or

- (b) Elucidate the techniques of project estimation.
- 19. (a) Devise the classification of design methodologies.

Or

- (b) Summarize the classification of cohesiveness.
- 20. (a) Elaborate the terminologies of software testing.

Or

(b) Describe the different approaches to structural testing.

PART C —
$$(5 \times 8 = 40 \text{ marks})$$

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

Each answer should not exceed 600 words.

21. (a) Evaluate the phased development process of software engineering.

Or

(b) Outline the different phases of the spiral model with diagram.

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22. (a) Discriminate the characteristics of a good SRS document.

Or

- (b) Generalize the need of software quality management system.
- 23. (a) Explain the COCOMO model for project estimation.

Or

- (b) Enumerate the different types of staff level estimation.
- (a) Compare and construct function-oriented design and object-oriented design.

Or

- (b) Discuss the IEEE recommended practice for software design descriptions.
- 25. (a) Examine the importance of reverse engineering.

Or

(b) Conclude the various activities of configuration management.

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