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PSG COLLEGE OF ARTS & SCIENCE

(AUTONOMOUS)

BSc DEGREE EXAMINATION MAY 2024

(Fourth Semester)

Branch - INFORMATION TECHNOLOGY

SOFT WARE ENGINEERING		
	Tir	me: Three Hours Maximum: 50 Marks
		SECTION-A (5 Marks) Answer ALL questions ALL questions carry EQUAL marks (5 x 1 = 5)
1		is a principle that is available in the repertoire of a software engineer to handle problem complexity. (i) Abstraction (ii) Decomposition (iii) Control Flow (iv) Polymorphism
2		A module is said to have cohesion, if all functions of the module refer to or update the same data structure. (i) functional (ii) Sequential (iii) communicational (iv) procedural
3		is shown as an arrow between two states. (i) Initial state (ii) Intermediate state (iii) Final state (iv) Transition
4		Probability of a product working satisfactorily within a specific period of time is called as (i) Reliability (ii) Conformance (iii) Durability (iv) Serviceability
5		produces a set of incremental prototypes that demonstrate functionality for the customer. (i) Business study (ii) Functional model iteration (iv) Implementation SECTION - B (15 Marks) Answer ALL Questions
		ALL Questions Carry EQUAL Marks $(5 \times 3 = 15)$
6	a	How does Evolution happen from an Art Form to an Engineering Discipline? Explain. OR
	b	Compare Different Life Cycle Models.
7	a	Summarise about Requirements Gathering and Analysis. OR
	b	How do you Characterize a Good Software Design? Explain.
8	a	Deduct the importance of Class Diagram. OR
	b	Explain about the function of Activity Diagram.
9	a	Show the importance of System Testing. OR Provide your prinier about Software Quality Models
	b	Provide your opinion about Software Quality Models.
10	a	Conclude the concepts involved in Software Reverse Engineering.

Narrate the principles for achieving agility.

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SECTION -C (30 Marks)

Answer ALL questions
ALL questions carry EQUAL Marks

 $(5 \times 6 = 30)$

11 a Explore about Emergence of Software Engineering.

OR

- b Demonstrate on Iterative Waterfall Model.
- 12 a Bring out the importance of Software Requirements Specification.

OR

- b Discuss the classifications of Cohesiveness.
- 13 a Sketch about Use Case Model.

OR

- b Criticize the Fundamentals of Component-based GUI Development.
- 14 a Analyze about White-Box Testing.

OR

- b Survey on SEI Capability Maturity Model.
- 15 a Organize a neat sketch on Characteristics of Software Maintenance.

OR

b Examine about any six other agile process models.

Z-Z-Z

END