Cont...

PSG COLLEGE OF ARTS & SCIENCE

(AUTONOMOUS)

BSc DEGREE EXAMINATION MAY 2024

(Fifth Semester)

Branch - COMPUTER SCIENCE

SOFTWARE ENGINEERING & DESIGN		
	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 an incremental software process model that emphasizes a short development cycle. (i) RAD Model (ii) Waterfall Model (iii) Prototyping Model (iv) Spiral Model
2		Which one of the following is not a step of requirement engineering? (i) elicitation (ii) design (iii) analysis (iv) documentation
3		Quality costs may be divided into costs associated with (i) Customers, developers and maintenance (ii) People, process and product (iii) Prevention, appraisal and failure (iv) Analyse, design and verify
4		Which of the following risk is the failure of a purchased component to perform as expected? (i) Programming risk (ii) Project risk (iii) Business risk (iv) Product risk
5		How many stages are there in software process improvement? (i) three (ii) four (iii) five (iv) six
		SECTION - B (15 Marks) Answer ALL Questions
		ALL Questions Carry EQUAL Marks (5 x 3 = 15)
6	a	Bring out the different categories of computer software applications that present continuing challenges for software engineers. OR
	b	Describe in brief about the characteristics of software engineering.
7	a	How to describe the use cases? Explain. OR
	b	Write short notes on modularity.
8	a	State the stress testing. OR
	b	Classify the three kinds of functional specification.
9	a	Define software scope and its functions. OR
	b	Show the three general condition of risk refinement.
10	a	Outline the five most widely used SPI framework. OR
	h	Identify a number of success factors that lead to achieve successful

collaborative efforts.

SECTION -C (30 Marks)

Answer ALL questions

ALL questions carry EQUAL Marks

 $(5 \times 6 = 30)$

11 a Explain about the software process framework and its activities.

OR

- b Elucidate various agility principles of software engineering.
- 12 a Summarize the requirements elicitation process of software engineering.

OR

- b Point out the five different kinds of software design model.
- 13 a Enumerate the Black box testing technique.

OR

- b Describe the merits for the requirements model.
- 14 a Illustrate the COCOMO Model used for software project estimation.

OR

- b With neat diagram, express the different activities of BPR model.
- 15 a Elaborate the various components of SPI process.

OR

b Examine the role of Capability Maturity Model to develop quality software in detail.

Z-Z-Z

END