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**G. VENKATASWAMY NAIDU COLLEGE (AUTONOMOUS), KOVILPATTI – 628 502.**



**UG DEGREE END SEMESTER EXAMINATIONS - NOVEMBER 2024.**

(For those admitted in June 2021 and later)

**PROGRAMME AND BRANCH: B.C.A.,**

SEM	CATEGORY	COMPONENT	COURSE CODE	COURSE TITLE
V	PART - III	CORE	U21CA508	SOFTWARE ENGINEERING

Date & Session: 11.11.2024 / FN

Time: 3 hours

Maximum: 75 Marks

Course Outcome	Bloom's K-level	Q. No.	SECTION - A (10 X 1 = 10 Marks) Answer <u>ALL</u> Questions.
CO1	K1	1.	Which one of the following is not a symptom of the present software crisis? a) Software is expensive b) It takes too long to build a software product c) Software is delivered late d) Software products are required to perform very complex tasks
CO2	K2	2.	Waterfall model is a _____ model. a) Linear                      b) Iterative                      c) Rapid                      d) Interactive
CO1	K1	3.	How many phases are there in Requirement Analysis? a) Three                      b) Four                      c) Five                      d) Six
CO2	K2	4.	Which of the following is not included in SRS? a) Performance                      b) Functionality c) Design solutions                      d) External Interfaces
CO1	K1	5.	The importance of software design can be summarized in a single word which is: a) Efficiency                      b) Accuracy                      c) Complexity                      d) Quality
CO2	K2	6.	A directed arc or line in DFD represents _____. a) Data access                      b) Data flow                      c) Data store                      d) Data process
CO1	K1	7.	Which of the following is not a user interface design process? a) Environment analysis and modeling                      b) Interface design c) Interface validation                      d) Knowledgeable, frequent users
CO2	K2	8.	Unit testing is done by _____. a) Users                      b) Developers c) Customers                      d) Consumers
CO1	K1	9.	How is software reliability defined? a) Time                      b) Efficiency                      c) Quality                      d) Speed
CO2	K2	10.	The core of reverse engineering is an activity called _____. a) Restructure code                      b) Extract abstractions c) Directionality                      d) Interactivity

Course Outcome	Bloom's K-level	Q. No.	<p style="text-align: center;"><b>SECTION – B (5 X 5 = 25 Marks)</b>  <b>Answer <u>ALL</u> Questions choosing either (a) or (b)</b></p>
CO3	K3	11a.	Explain control flow-based design with a neat diagram. <b>(OR)</b>
CO3	K3	11b.	Write a short note on the evolutionary model.
CO3	K3	12a.	Examine the job responsibilities of a software project manager. <b>(OR)</b>
CO3	K3	12b.	Write about categories of customer requirements.
CO4	K4	13a.	List some outcome of the design process. <b>(OR)</b>
CO4	K4	13b.	Distinguish between a data flow diagram (DFD) and a flow chart.
CO4	K4	14a.	Determine the menu-based interface with a suitable diagram. <b>(OR)</b>
CO4	K4	14b.	Differentiate between verification and validation.
CO5	K5	15a.	Criticize the shortcomings of ISO 9000 certification. <b>(OR)</b>
CO5	K5	15b.	Explain the various types of software maintenance.
Course Outcome	Bloom's K-level	Q. No.	<p style="text-align: center;"><b>SECTION – C (5 X 8 = 40 Marks)</b>  <b>Answer <u>ALL</u> Questions choosing either (a) or (b)</b></p>
CO3	K3	16a.	Explain data structure oriented design and object oriented design. <b>(OR)</b>
CO3	K3	16b.	Examine the classical waterfall model and its phases.
CO4	K4	17a.	Discuss in detail project planning and also explain the SPMP document. <b>(OR)</b>
CO4	K4	17b.	List the various characteristics of a good SRS document.
CO4	K4	18a.	List the different characteristics that make a software design good. <b>(OR)</b>
CO4	K4	18b.	Elucidate the context diagram with an example.
CO5	K5	19a.	Explain the various important characteristics of a good user interface. <b>(OR)</b>
CO5	K5	19b.	Critique the concept of unit testing.
CO5	K5	20a.	What is ISO 9000? And also explain ISO 9000 for the software industry. <b>(OR)</b>
CO5	K5	20b.	State your opinion about software reverse engineering in detail.