Question 01 (20 Marks)

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<ul> <li>4. Which of the following are characteristics of a project? <ul> <li>A. Temporary</li> <li>B. On-going</li> <li>C. Repeated</li> <li>D. Progressive Elaboration</li> <li>a) A &amp; C Only.</li> <li>b) A, B &amp; C Only.</li> <li>c) A &amp; D Only</li> <li>d) A,</li> </ul> </li> <li>5. Which of the following is not a property of a system?</li> </ul>	b) Only (A), (C) and (D)
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5. Which of the following is not a property of a system?	on .
	Only. c) A & D Only d) A, B & D Only
a) Independent b) Has a purpose c) Interactive d) In	erty of a system?
	oose c) Interactive d) Interrelated

6.	Under which of the following criteria, a Feasibility Study can be performed?
	A. Operational Feasibility
	B. Economical Feasibility
	C. Cultural Feasibility
	D. Technical Feasibility
	a) A, B & C Only. b) B & D Only c) A, B & D Only d) A & B Only
7.	Which of the following is not true about a project?
	a) The result of a project can be a unique service.
	b) Two projects cannot be same.
	c) A project can be started without an end date.
	d) The result of a project can be tangible or intangible.
8.	Waterfall model is not suitable for?
	a) Small Projects
	b) Complex Projects
	c) Accommodating changes
	d) Both b) & c)
9.	Which of the following is not true regarding the waterfall method?
	a) Fairly rigid approach
	b) Can easily go back to previous phases
	c) Not so good for many of the new types of interactive and highly complex applications
	d) This approach is used less now
10.	Kevin is a systems analyst who is determining business requirements. What would most likely be
	the SDLC phase for him?
	a) Planning b) Analysis c) Design d) Implementation

11.	Pro	ototyping aims at		
	a)	End-user understanding and approval	b)	Program logic
	c)	Planning of dataflow organization	d)	None of the above
12.		system is a repre	sentati	on or model of a real system.
	a)	Static b) Physical	c) I	Dynamic d) Abstract
13.	Th	e primary goal of a system analyst is to		
	a)	Establish the three phases of the SDLC	c b)	Acquire a working tool
	c)	Develop a wonderful system	d)	Make a significant business impact
14.	Wl	nich of the following are the shortcomin	igs of F	rototyping Development Model?
		A. Leading users to overestima	ate the	capabilities of a software product.
		B. Difficulties in project mana	igemen	t and control.
		C. Provide a tangible or visual	expres	ssion of proposed system.
		D. Increase the complexity of	the sys	tem as scope of the system.
	a)	A, B & C only b) B, C & D only	c)	A, B & D only d) All the above
15.	Wl	nich of the following statement(s) is/are	true?	
	a)	-	origina	tes in the manufacturing and construction
	b)	companies.  One of the advantages of the Waterfall	Devel	opment Methodology is the availability of the
		working system in the early stage.		
		The Evolutionary and Throwaway Pro	totypin	g are the approaches to prototyping
	d)	Both (a) & (c)		
	e)	All the above		
16.	In	which phase of the software design and	develo	pment project would you build a blueprint of the
	pro	pposed system?		
	a)	Analysis phase	b)	Design phase
	c)	Requirement phase	d)	Development phase

17.	W	hat is	s a pr	ototyp	e?

a) Working model of existing system.

b) Mini model of existing system

c) Mini model of proposed system

d) All the above

18. Selection of a particular life cycle model is based on,

a) Requirements

b) Technical knowledge of development team

c) Project types and associated risks

d) All the above

19. This phase of the SDLC is known as the "ongoing phase" where the system is periodically evaluated and updated as needed.

a) Preliminary Investigation

b) System Maintenance

c) System Design

d) System Implementation

- 20. The prototyping model of software development is
  - a) A reasonable approach when requirements are well defined.
  - b) A useful approach when a customer cannot define requirements clearly.
  - c) The best approach to use for projects with larger development teams.
  - d) A risky model that rarely produces a meaningful product.

**Question 02 (15 marks)** a) Choose the most suitable phrase/term from those given in the bracket and fill in the blanks to make the following sentences meaningful. One phase/term should be used only once. i. A system may consist of a set of interacting smaller systems, known as ii. \_\_\_\_\_ is concerned with how system components are connected together. iii. The output is taken to improve the system and to make it achieve the laid standards is called The \_\_\_\_\_\_ is the "super system" within which a system operates. iv. The arrangement of components that helps to achieve predetermined objectives in a system is known v. vi. provide the justification for the system and determine policies for its use. A \_\_\_\_\_\_is a formalized approach to implementing the SDLC. vii. The document prepared at the planning stage is called\_\_\_\_\_ viii. A is an initial version of a system used to demonstrate concepts and try out design ix. options. х. In project initiation at planning, all possible alternate solutions are chalked out and they are known **Phrases** procedures, feedback, standards, subsystems, stakeholders, methodology, system analyst, system sponsors, system users, SRS, prototype, feasibility report, integration, interaction, environment, candidate systems, proposed systems, organization b) State whether the following statements are True(T) / False(F). (5 marks) RAD methodology is much concerned on detailed specification & documentation. i. If it is highly necessary, we can bypass the stages in Waterfall methodology and come ii. back to it later. iii. Having unstable, uncertain requirements are considered as a risk itself. The throw-away prototype is considered as a part of the final system. iv. Waterfall methodology is a RAD methodology. v.

Qι	uestion 03 (15 marks)
1.	Differentiate between a <b>system</b> and a <b>collection</b> . Provide suitable examples.
2.	"Having the working knowledge of Information Technology & programming is a skill required
	by a System Analyst."
	Do you agree with this statement? Explain your answer.
3.	There're 2 steps in Planning stage of SDLC. Project Initiation & Project Management.
	Explain the importance of Feasibility Study in the Project Initiation.

"Prototyping Methodology can be used when the requirements are unstable & when a quick delivery of the system is needed."
Explain the above statement.
"Watefall Methodology is not suitable for the projects with vague and ambigious requirements."
Explain why.