General system characteristics	Weights
Performance	4
Heavily used configuration	3
Transaction rate	3
End user efficiency	4
Online update	2

Calculate unadjusted function points, value adjustment factors and function points of a given project.

29. a. Compare and contrast requirement management process in waterfall model with iterative model.

(OR)

- b. Analyze the software construction characteristics and mention the necessities in detail.
- 30. a. Consider a company in CMMI level II certification, now they are working in a new project. If they want to move to next level of certification, what are the steps needed to improve?

(OR)

- b. Describe the strength and limitations of agile methods.
- 31. a. Consider you are the project manager and managed different project teams. Analyze the team management challenges and mention the solutions.

(OR)

- b. Summarize the following customer management components
 - Customer expectation management
 - (ii) Negotiation management
 - Reporting management
- 32. a. Discuss the benefits of tools and tool selection considerations

(OR)

- b. Summarize the following tools
 - Requirement elicitations tools (i)
 - (ii) Requirement development tools
 - Requirement management tools

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B.Tech. DEGREE EXAMINATION, MAY 2019

3rd to 8th Semester

15SE313 - SOFTWARE PROJECT MANAGEMENT

(For the candidates admitted during the academic year 2015-2016 to 2017-2018)

Note: (i)

- Part A should be answered in OMR sheet within first 45 minutes and OMR sheet should be handed over to hall invigilator at the end of 45th minute.
- Part B and Part C should be answered in answer booklet.

Time: Three Hours

Max. Marks: 100

$PART - A (20 \times 1 = 20 Marks)$ Answer ALL Questions

1.	Project initiation, planning,process.	and project closure are project management
	(A) Project monitoring and control(C) Project quality assurance	(B) Project configuration management(D) Project evaluation and verification
2.	is a defined way of doing th	inos

- (A) Process (B) Product (C) System (D) Task
- 3. To monitor and control effectively, the project manager needs data.
 - (A) Model (C) Dummy

(B) Sample (D) Measurement

- 4. Cause and effect diagrams also known as
 - (A) Linear diagrams

(B) Layer diagrams

(C) Use case diagrams

- (D) Fish bone diagrams
- are the first phase of any software life cycle management.
 - Software requirements

(B) Design

(C) Testing

- (D) Construction
- 6. Tool used for secure expert judgment
 - (A) Peer review

- (B) Delphi technique
- (C) Expected value technique
- (D) Work breakdown structure
- 7. What should a project manager do or follow to ensure clear boundaries for project completion?
 - (A) Scope verification (C) Scope definition

- (B) Completing a scope statement (D) Risk management plan
- 8. What should be done by the project manager to ensure that all work in the project is included? (A) Create SRS
 - (B) Create risk management plan

(C) Create a WBS

(D) Create a scope statement

9.	The	final form of testing COTS software is		testing.
	(A)	Unit	(B)	Integration
	(C)	Alpha	(D)	Beta
10.		ch technique is applicable when other been completed?	proje	ects in the same analogy application domain
		Algorithm cost modelling	(B)	Expert judgment
		Estimation by analogy		Parkinson's law
11.		number of maturity levels in	CMI	M are available
11.	(A)		(B)	
	(C)		(D)	
	(C)	8	(D)	
12.		is not an input to project pla		
	(A)	Work authorization system	(B)	Project plan
	(C)	Corrective action	(D)	Preventive action
13.	The	individual or organization who wants a	prod	luct to be developed is known as the
10		Developer		User
	(C)	Contractor	(D)	Client
14.		is the best way to test the sof	ftwar	e project management plan.
	(A)	Prototyping	(B)	Inspection
	(C)	Simulation	(D)	Compilation
15.		is the most important motivat	ing fa	actor for any employee.
	(A)	Advice	_	Salary
	(C)	Suggestions	(D)	Guidance
16.	Whi	ch of the following is not a requiremen	t mar	nagement work bench tool?
,		RTM		Doors
		Rational suite		RDD100
17.		are COTS or service prov	idora	
17.	(A)	Supplier Supplier		
	(C)	Client	(B)	Tester
	(C)	Chefit	(D)	Tester
18.		increase productivity		
	(A)	Tools		Reviews
	(C)	Inspections	(D)	Defects
19.	Whi	ch of the following is not a requiremen	t mar	nagement tool?
		Requirement priority list		Requirement change management
	(C)	Use cases		Requirement version management
20.	+1	is not the usage of configura	tion	management tool
20.	(A)	Version control		Project reporting
	(A)			
	(C)	Configuration control	(D)	Project document management

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$PART - B (5 \times 4 = 20 Marks)$ Answer ANY FIVE Questions

With the help of pareto analysis identify the important causes and less important causes for the given error (cause) details of a website

Errors (causes)	Count
Broken links	200
Spelling errors	75
Missing title tag	120
Missed description tag	95
Browser capability	85
Security warning	60

- 22. Draw the cause and effect diagram for product failure.
- 23. Mention the characteristics of a good software design.
- 24. Analyze some reasons for software maintenance.
- 25. Assume you are the project manager. Mention the benefits of using standard proceses across projects in your way.
- 26. List the customer management challenges.
- 27. Specify the factors to be considered during tool section.

$PART - C (5 \times 12 = 60 Marks)$ Answer ALL Questions

28. a. A show room management system consists of 5 major functionalities. The functionalities and their estimated size are given below

	Sales management	20 KLOC
1	Inventory management	20 KLOC
1	Customer management	150 KLOC
	Employee management	
- 1	Service management	100 KLOC

The cost drivers considered are reliability as nominal, size of application database is high and complexity of the product is low. The rating of cost drivers are given below

Cost drivers	Ratings						
	Very low	Low	Nominal	High			
Software reliability	0.75	0.88	1.00	1.15			
Size of application database		0.94	1.00	1.08			
Complexity of the product	0.70	0.85	1.00	1.15			

Calculate effort and development time using all 3 modes of intermediate COCOMO.

(OR)

b. Rojar and his team is developing an application system. It has 10 inputs, 10 outputs, 10 inquiries, 1 internal logical file and 1 external interface file. Assume average complexity for 5 primary factors. The general system characteristics involved in this project and their influential weights are given below

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