

## Bahir Dar institute of Technology Faculty of Computing

## PART ONE: Choose the best answer from the given alternatives.

1.	W	Thich of the following is not a	project management g	oal?
	A.	Avoiding customer complain	nts	
	B.	Keeping overall costs within	budget	
	C.	Delivering the software to the	e customer at the agree	d time
	D.	Maintaining a happy and we	ll-functioning developr	nent team
2.	W	hat is the first step in project J	planning?	
	A.	Determine the budget	C.	Inspect the deliverables
	B.	Determine project constraint	S D.	Establish the objectives and scope
3.	A	project is anything which is		
	A.	Not implicitly expressed	C.	Implicitly expressed
	B.	Not a physical objective	D.	Social acceptability
4.	Pr	ocess framework activities are	e populated with	
	A.	Milestones	C.	Work Products
	B.	QA Points	D.	All of the above
5.	W	hich of the following is not ar	n effective software pro	ject management focus?
	A.	People	C.	Product
	B.	Popularity	D.	Process
6.	Th	ne reason for software bugs an	d failures is due to	
	A.	Software developers	C.	Both (A) and (B)
	B.	Software companies	D.	None of the above
7.	A	ccording to the Project Manag	ement Institute (PMI),	project management is defined as
	"tł	ne application of knowledge,	,, and tech	niques to project activities to meet
	the	e project requirements".		
	A.	Skills, Tools	C. Tools, Analysis	E. Skills, Theories
	B.	Skills, Analysis	D. Analysis, Theories	3
8.	Dι	uring project estimation, proje	ct manager estimates f	ollowing
	A.	Project duration	C.	Project cost
	B.	Project effort	D.	All of the above

9.	Pr	oject managers have to assess the risks that may	affe	ct a project
	A.	True	B.	False
10.	Di	fferent activity of a project management is		
	A.	Project planning	C.	Project control
	В.	Project monitoring	D.	All of the above
11.	Cı	altural implications of the project are examined b	y	
	A.	Cultural feasibility	C.	Technical feasibility
	В.	Economic feasibility	D.	Marketing feasibility
12.	Ef	fective software project management focuses on		
	A.	People, Performance, Payoff, Product		
	В.	People, Product, Process, Project		
	C.	People, Process, Payoff, Product		
	D.	People, Product, Performance, Process		
13.	W	hich of these are not among the eight principles f	follo	owed by Software Engineering
	Co	ode of Ethics and Professional Practice?		
	A.	Public	C.	Profession
	В.	Product	D.	Environment
14.	Th	ne is not an approach to software cost e	estir	nation?
	A.	Analytical	C.	Critical
	В.	Heuristic	D.	Empirical
15.	W	hich of these does not account for software failur	æ?	
	A.	Increasing demand	C.	Increasing supply
	В.	Less reliable and expensive	D.	Low expectation
16.	W	hich of the following is not considered as a risk i	n pı	roject management?
	A.	Testing	C.	Product competition
	В.	Specification delays	D.	Staff turnover
17.	W	hat are attributes of good software?		
	A.	Software maintainability		
	В.	Software maintainability & functionality		
	C.	Software functionality		
	D.	Software development		

18. Risk management is one of the most important jobs for a						
A. Investor	C. Production team					
B. Client	D. Project manager					
	D. Floject manager					
19. Capacity planning						
A. Increase cost	C. Increases waste					
B. Save time	D. Increase production					
20. Which of the following is not considered a stakeho						
A. Project Managers	C. Customers					
B. End-Users	D. Sales People					
21. Which paradigm structures a team loosely and dep	ends on individual initiatives of the					
team members?						
A. Synchronous paradigm	C. Open paradigm					
B. Random paradigm	D. Closed paradigm					
22. Which of these is true?						
A. Generic products are produced by organization	and sold to open market					
B. Generic products and customized products are to	types of software products					
C. Customized products are commissioned by part	ticular customer					
D. All of the above						
23. The process each manager follows during the life of	of a project is known as					
A. Manager life cycle	C. Project Management Life Cycle					
B. Project Management	D. None of the above					
24. The model serves as the basis for the creation of _	for the Software.					
A. Specifications	C. Maintenance					
B. Testing	D. Design					
25. Which of the following activity is undertaken imm	nediately after feasibility study and					
before the requirement analysis and specification phase?						
A. Project Monitoring	C. Project Control					
B. Project Planning	D. Project Scheduling					
26. A 66.6% risk is considered as						
A. High	C. Very Low					
B Low	D. Moderate					

27. Sr	mall agile teams have no place in modern softwar	re de	evelopment
A.	True	B.	False
28. W	Thich one of the following is not a software proce	ess q	uality?
A.	Productivity	C.	Visibility
В.	Timeliness	D.	Portability
29. W	Thich of the following is/are main parameters that	t you	a should use when computing the
co	osts of a software development project?		
A.	Travel and training costs		
B.	Hardware and software costs		
C.	Effort costs (the costs of paying software engine	eers	and managers)
D.	All of the above		
30. W	Then can selected common process framework ac	tivit	ies be omitted during process
de	ecomposition?		
A.	When the project is extremely small in size		
B.	Never the activities are invariant		
C.	Anytime the software is mission critical		
D.	Rapid prototyping does not require their use		
31. Tl	ne PERT in project management means program	eval	luation and technique.
A.	Resource	C.	Reconsideration
B.	Reconciliation	D.	review
32. "F	Risk" is usually as the project progresse	s.	
A.	Increased	C.	remained same
B.	Reduced	D.	become negligible
33. As	ssembling project team and assigning their respo	nsib	ilities are done during which phase
of	a project management?		
A.	Initiation	C.	Execution
B.	Planning	D.	Closure
34. Tł	ne basic nature of a project is a/an one.		
	A. Permanent		C. (A) or (B)
	B. Temporary		D. Both (A) and (B)

35. A process that involves continuously improving and detailing a plan as more detail					
become available is termed as:					
A. project analysis	C. progressive deliberation				
B. project enhancing	D. progressive elaboration				
36. A program is usually a group of					
A. Plans	C. related projects				
B. people and work	D. unrelated projects				
37. Which from the following statement(s) is/are	e NOT true?				
I. Projects have defined objectives					
II. Programs have a larger scope than projec	ts				
III. The projects and programs in a portfolio	must be directly related				
A. I only	C. III only				
B. II only	D. II and III only				
38. Projects management is divided in pr	ocess groups.				
A. 5 B. 7	C. 9 D. 11				
39. What are the five basic parameters of softwa	are economics?				
A. Size, process, personnel, environment, re-	quired quality				
B. Size, customer satisfaction, Operating sys	stem, environment, and the technology used				
C. Model of the project, customer satisfaction	on, Operating system, environment, and the				
technology used					
D. Process, customer satisfaction, Operating system, environment, and the technology					
used					
40. Choose the correct option which depicts the	relationships between the five parameters of				
software economics?					
A. Project=(effort)(environment)(quality	y)(size) <sup>process</sup>				
B. effort=(personnel)(environment)(quality)(size) <sup>process</sup>					
C. effort=(Process)(environment)(quality	ty)(size) <sup>personnel</sup>				
D. quality=(Process)(environment)(proc	cess)(size) <sup>personnel</sup>				
41. What is the diseconomy of the scale of softw	vare development?				
A. The diseconomy of the scale of software development is a result of the process					
exponent being greater than 1					

	B. T	The diseconomy of the scale of softwar	re developr	nen	t is a result of the process
	e	xponent being greater than 0			
	C. T	The diseconomy of the scale of softwar	re developr	nen	t is a result of the process
	e	xponent being greater than 1.0			
	D. T	The diseconomy of the scale of softwar	re developr	nen	t is a result of the process
	e	xponent being less than 1			
42.	What i	s the most significant way to improve	affordabili	ty a	nd return on investment?
	A. Pr	roducing a product that achieves the de	esign goals	wit	h a minimum amount of
	hu	iman-generated source materials			
	B. Pr	roducing a product that achieves the de	esign goals		
	C. Pr	roducing a product that achieves the de	esign goals	tha	t satisfy the customer
	D. A	ll of the above			
43.	a	re the useful estimators for language-i	independen	t, ea	arly life cycle estimates.
	A. U	Universal language points (ULP)	C.	Fu	nction points (FP)
	B. U	Universal functions points (UFP)	D.	Al	of the above
14.	Wha	t limits the options of the project team	1?		
	A.	Constraints		C.	Technology
	B.	Assumptions		D.	Deliverables
45.	The wo	ork breakdown that covers the acquisi-	tion of a sp	ecif	ic defense material item and is
	related	to contractual effort, is called			
	A.	Contract WBS		C.	Program WBS
	B.	Contract Program WBS		D.	None of these
46.	Work 1	Breakdown Structure how many types	s		
A.	Three	B. Two	C. Four		D. None of these
47.	Requir	ements management is Important? because	cause of the	e ch	anges
	A.	in technology		D.	in all of the mentioned.
	B.	to the environment		E.	none of these
	C.	in customer's expectations			
48.	The fo	llowing costs are not part of the total e	effort cost_		
	A.	Costs of lunch time food		C.	Costs of networking
	B.	Costs of providing heating		D.	Costs of support

49. Whic	h of the following is related to	the o	overall <u>function</u>	nalit	y of the delivered software?
A	. Product-related metrics			C.	Size-related metrics
В	. Function-related metrics			D.	None of the mentioned
50. When	never evaluating current proble	ms a	and desired info	rma	ation the analyst begins to
A	Model			C.	Specification
В	. Synthesize solutions			D.	None of these
51. What	is the research-oriented softwa	ire d	evelopment		
A	. Product-related problems			C.	People-related problems
В	. Process-related problems			D.	Technology-related problems
52. What	type of reviews conducted at e	ach	of these phases	S	<u> </u>
A	. Analysis	C.	Coding		E. None of these
В	. Design	D.	All of given		
53. Tech	nical kernel of software engine	ering	5		
A	Testing			C.	Design
В	. Requirement Analysis			D.	Implementation
54 Wha	at is the preferred order for perf	orm	ing testing on i	nfo	rmation technology projects?
A. u	nit testing, integration testing, s	syste	m testing, user	acc	eptance testing
B. u	nit testing, system testing, integ	gratio	on testing, user	acc	eptance testing
C. u	nit testing, system testing, user	acce	eptance testing,	inte	egration testing
D. u	nit testing, integration testing, u	iser	acceptance test	ing,	system testing
55	is the degree to which	a se	et of inherent ch	nara	cteristics fulfils requirements.
A	Quality			C.	Fitness for use
В	. Conformance to requirement	S		D.	Reliability
56. What	is the purpose of project qualit	ty m	anagement?		
A	. to produce the highest qualit	y pro	oducts and serv	ices	possible
В	. to ensure that appropriate qu	ality	standards are 1	net	
C	. to ensure that the project wil	l sati	isfy the needs f	or w	which it was undertaken
D	. All of the above				
57. Whic	h of the following is not part of	f pro	ject human res	our	ce management?
A	. resource estimating			C.	acquiring the project team
В	. developing the project team			D.	managing the project team

58	causes people to participate in an activity	for t	heir own enjoyment.			
A.	Intrinsic motivation	C.	Extrinsic motivation			
B.	Self-motivation	D.	Social motivation			
59	maps the work of a project, as described in	the	WBS, to the people responsible			
for per	rforming the work.					
A.	project organizational chart					
B.	resource histogram					
C.	work definition and assignment process					
D.	responsibility assignment matrix					
60. A staf	fing management plan often includes a resource		, which is a column			
chart t	hat shows the number of resources assigned to the	ne pi	roject over time.			
A.	Chart	C.	histogram			
B.	graph	D.	timeline			
61. What	are the five stages in Tuckman's model of team de	evelo	opment, in chronological order?			
A.	forming, storming, norming, performing, and a	djou	ırning			
B.	storming, forming, norming, performing, and adjourning					
C.	norming, forming, storming, performing, and a	djou	ırning			
D.	forming, storming, performing, norming, and a	djou	ırning			
62. Which	of the following is not a tool or technique for m	ana	ging project teams?			
A.	observation and conversation	C.	project performance appraisals			
В.	conflict management	D.	Social Styles Profile			
63. What	do many experts agree is the greatest threat to the	ie su	access of any project?			
A.	lack of proper funding	C.	poor listening skills			
B.	a failure to communicate	D.	inadequate staffing			
64. Which	of the following is not a process in project com	mun	ications management?			
A.	planning communications management					
B.	controlling communications					
C.	managing communications					
D.	managing stakeholders					
65. If you	add three more people to a project team of fiv	e, ho	ow many more communication			
channe	els will you add?					

A. 2	B. 12	C. 1	5	D. 18
66	report describes when	e a project stand	ds at a specific point	t in time.
A. Status		C	forecast	
B. perform	ance	D	. earned value	
67. What term desc	cribes information that is s	ent to recipients	s at their request via	a Web sites,
bulletin boards,	e-learning, knowledge rep	ositories like blo	ogs, and other mean	s?
A. push co	mmunications	C	interactive commu	ınications
B. pull con	nmunications	D	. customer commur	nications
68. Which of the fo	ollowing is not a recommen	dation for impro	oving project comm	unications?
A. You cannot	ot over communicate.			
B. Project m	anagers and their teams sho	ould take time to	develop their com	munications
skills.				
C. Do not u	se facilitators or experts	outside of the	project team to co	ommunicate
important	information.			
D. Use temp	lates to help prepare projec	t documents.		
69. A	report is a ref	lective stateme	nt that documents	s important
information lea	rned from working on the p	project.		
A. final pro	oject	C	project archive	
B. lessons-	learned	D	. progress	
70	is an uncertainty that car	n have a negativ	e or positive effect	on meeting
project objectiv	res			
A. Risk uti	lity	C	. Risk management	
B. Risk tol	erance	D	. Risk	
71. Which risk man	nagement process involves	prioritizing risk	s based on their pro	bability and
impact of occur	rence?			
A. planning risk	management	C. perf	orming qualitative ri	sk analysis
B. identifying ris	sks	D. perf	orming quantitative	risk analysis
72. Your project in	volves using a new release	of a common	software application	, but if that
release is not av	vailable, your team has	pla	ns to use the curren	t release.
A. Conting	gency	C	. reserve	
B. fallback		D	. mitigation	

73. A risk	is a document that contains r	esul	ts of various risk management
process	ses, and is often displayed in a table or spreadsh	eet f	Format.
A.	management plan	C.	breakdown structure
B.	register	D.	probability/impact matrix
74	are indicators or symptoms of actual	risk	events, such as a cost overrun
on earl	y activities being a symptom of poor cost estima	ites.	
A.	Probabilities	C.	Watch list items
B.	Impacts	D.	Triggers
75. Your p	roject team has decided not to use an upcoming i	elea	ase of software because it might
cause y	your schedule to slip. Which negative risk respon	ise s	strategy are you using?
A.	avoidance	C.	transference
B.	acceptance	D.	mitigation
76. Which	of the following comprehends the project life cy	/cle'	?
A.	Milestones	C.	Estimates
B.	Phases	D.	Activities
77. During	project execution, a team member comes to the	e pro	oject manager, as he is not sure
of wha	t work he needs to accomplish on the project.	Whi	ch of the following documents
contair	detailed descriptions of work packages?		
A.	Scope management plan	C.	WBS
B.	Project scope statement	D.	Activity list
78	are a formal group of people respo	nsib	ole for approving or rejecting
change	es on a project.		
A.	Change Control Board	C.	Senior management
B.	Client	D.	Project manager
79. Which	one of the following is true about project scope	?	
A.	It is the combination of the cost and the schedul	e, w	hich is required to complete the
	project work.		
B.	It is the description of the required work that is	nec	essary to complete the project.
C.	t is the design of experiments that are used to co	omp	lete the project work.
D.	It is the description of the required work and res	sour	ces that are needed to complete
	the project.		

80. WBS i	s an excellent and most effective tool that is use	ed for	tracking of:
A.	Project Resources	C.	Project Scope
B.	Project Schedule	D.	Project Risks
81. What i	s the role of the change control board?		
A.	Doing performance appraisal for team member	s inv	olved in implementing changes
B.	Encouraging team members to raise more chan	ige re	equests
C.	Assessing the impact of the change on Project	objec	etives
D.	Defining requirements for the customer		
82. Which	one of the following knowledge areas of proje	ct ma	anagement does not lead to the
specifi	c objectives of the project?		
A.	Scope management	C.	Schedule management
B.	Risk management	D.	Quality management
83. A	is a product or service produced o	or pro	ovided as part of a project.
A.	Deliverable	C. 3	Schedule
В.	Process	D. (	Quality
84. Which	one of the following is a deliverable from deve	lopm	ent phase of project life cycle?
A.	Performance report	C.	Definitive cost estimate
B.	Budgetary cost estimate	D.	Customer acceptance
85. Top m	anagers can help project managers by		
A.	Providing adequate resources		
В.	Approving unique project needs in a timely ma	nner	
C.	Mentoring and coaching on leadership issues		
D.	All		
86. The ap	oplication area or the project directly affects the		·
A.	Project Plan	C.	Project Execution
В.	Project Change	D.	All
87. Cost b	aseline is the output of which of the following?		
A.	Determine budget	C.	Plan cost management
В.	Estimate costs	D.	Control costs
88. Which	is NOT true about tools and techniques of Perfo	orm l	integrated Change Control?
A.	They include project plan updates		

	B.	B. They include change control meetings					
	C. A change control board (CCB) is responsible for meeting and reviewing the change						
	requests and approving, rejecting, or other disposition of those changes						
	D.	They include expert judgment					
89.	Being	the project manager of the ABC Project, yo	ou have all	owed subsequent project phase			
	to beg	in even before the predecessor phase com	pletes. Wh	nich of the following relates to			
	this sc	enario?					
	A.	Crashing	C.	Risk management			
	В.	Fast-tracking	D.	Tandem scheduling			
90.	What i	s the SPI of a software development projec	t where EV	V = Birr 6,000, PV = Birr 5,000,			
	AC = 1	Birr 4,000?					
	A.	0.73 B. 1.2	C. 0	.8 D. 1			
91.	All of	the following are always inputs to the risk	managem	ent process EXCEPT:			
	A.	Historical information	C.	Work breakdown structure			
	В.	Lessons learned	D.	Project status reports			
92.	Which	of the following represents a set of co	nditions th	hat should be satisfied before			
	delive	rables are accepted?					
	A.	Deliverables list	C.	Acceptance criteria			
	В.	Test plan	D.	Punch list			
93.	The be	est project organization structure for a small	ll but high	ly technical project will be:			
	A.	Mixed organization	C.	Matrix organization			
	В.	Functional organization	D.	Projectized organization			
94.	You fi	nd that activity in your project is very risk	y. How w	ill you estimate the duration of			
	this ac	tivity when your team member has given t	he optimis	tic, most likely and pessimistic			
	duratio	on for the activity?					
	A.	Using variance analysis	C.	Using PERT formula			
	В.	Using sensitivity analysis	D.	Using performance reports			
95.	The pr	oject manager meets with the project team	n to review	lessons learned from previous			
	project	ts. In what activity is the team involved?					
	A.	Performance management	C.	Risk identification			
	В.	Scope identification	D.	Project team status meeting			

- 96. During which risk management process is a determination to transfer a risk made?
  - A. Identify Risks
  - B. Perform Quantitative Risk Analysis
  - C. Plan Risk Response
  - D. Monitor and Control Risks
- 97. Schedule Variance is:
  - A. A negative value means that the project will likely be delayed
  - B. This always affects the CV
  - C. A positive value means that the project will likely be delayed
  - D. This never affects the CV
- 98. If SPI = 0.75 and CPI = 0.8, then which of the following reports is correct?
  - A. SV = Birr 3750
  - B. CV = Birr 4000
  - C. TCPI = 0.8
  - D. The project likely needs more money than planned to complete
- 99. Parametric estimating entails:
  - A. Estimating the cost of the present project based on the actual cost of a prior similar project
  - B. Defining project life cycle cost and duration parameters
  - C. Creating a cost estimate for project work by using a statistical link between relevant historical data and other variables
  - D. Creating independent cost estimates for each work package and combining them to determine the final project cost
- 100. What are the three 'I's' of stakeholders?
  - A. Interest, influence, and involvement
  - B. Interest, influence, and impact
  - C. Interest, influence, and importance
  - D. Importance, inquiry, and influence
- 101. A road project was planned to be completed in 8 months. Calculate the SV when the earned value information at the end of six months is given as: BAC = Birr 8000, AC = Birr12000, % complete = 100%.

	A.	Birr 4,000	C.	Birr 8,000	
	В.	Birr 2,000	D.	Birr 6,000	
102.	Wl	Which one of the following reasons to manage software projects is incorrect?			
	A.	Software development is highly unpredictable.			
	B.	Most of projects are delivered within initial bud	get	and on schedule.	
	C.	Management has a greater effect on the success or failure of a project than			
		technology advances.			
	D.	Too often there is too much scrap and rework.			
	E.	The entire process is very immature, not enough reuse.			
103.	Wl	Which one of the following can be considered as a cause of project failure?			
	A.	. Unrealistic or unarticulated project goals			
	B.	Inaccurate estimates of needed resources			
	C.	Badly defined system requirements			
	D.	Poor reporting of the project's status			
	E.	All			
104.	Wl	Which one of the following can be considered as a cause of project failure?			
	A.	Unrealistic or unarticulated project goals			
	В.	Inaccurate estimates of needed resources			
	C.	Badly defined system requirements			
	D.	Poor reporting of the project's status			
	E.	All			
105.		is a temporary endeavor und	lerta	ken to accomplish a unique	
pu	rpos				
		Project		Research	
	В.	Operation	D.	Work	