



1		of the	e following processes form part of the Executing process group	Ch.3
	а	Per	forming activities in accordance with the project management plan.	
	b	Mar	naging changes to the deliverables.	
	O		mpleting the work in accordance with the defined quality framework and cification.	
	d	Coc	ordinating people and resources.	
An	Answers		Reference: PMBOK® Guide Table 3-1 p61	
	е	The	e best answer is B	
		i	Managing changes is part of Integrated Change Control; this is part of the Monitoring and Controlling process group.	
		ii	The Executing process group consists of those processes performed to complete the work defined in the project management plan to satisfy the project specifications.	
		iii	An output from Integrated Change Control is updates to the project management plan to incorporate approved changes.	

2		Thich calculation is correct for the To-Complete Performance Index (TCPI) ased on the Estimate At Completion (EAC)?					
	а	AC	+ (BAC – EV)				
	b	(BA	(BAC - EV)/(BAC - AC)				
	С	BAC/CPI ^{cum}					
	d	(BA	C - EV)/(EAC - AC)				
An	swer	S	Reference: PMBOK® Guide p221 Sect 7.4.2.3				
	е	The	e best answer is D				
			TCPI is the projection of the future cost performance that must be achieved on the remaining work to achieve a management goal such as the original Budget At Completion (BAC) or a calculated Estimate At Completion (EAC).				
		ii	All of these formula use standard Earned Value Management acronyms: Option 'a' calculates EAC based on future work being performed at budgeted rates Option 'b' calculates TCPI based on BAC (the question asked for EAC) Option 'c' calculates EAC based on future work being performed at the same CPI as the completed work.				

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3	ΑF	Pareto	o diagram shows:	Ch.8
	а	The	e 80% of the work that is important.	
	b		The qualitative improvement trend demonstrated by implementing a Six Sigma initiative.	
	С	C A histogram ordered by frequency of occurrence.		
	d	The	e 20% of the work that is causing the most issues.	
Answers		8	Reference: PMBOK® Guide p237 Section 8.1.2.3	
	е	The	e best answer is C	
			A Pareto diagram is a specific type of histogram, ordered by frequency of occurrence.	
	ii		It is used to show how many defects were generated by each category of identified cause to allow remedial action to be focussed on the most significant.	
		iii	The Pareto principle (also known as the 80-20 rule) is different, see: http://en.wikipedia.org/wiki/Pareto principle	

4			ed Change Control includes all of the following tools and ues except:	Ch.4	
	а	Pro	ject management plan updates.		
	b	b Expert judgement.			
	С	c Meetings.			
	d	Аc	hange control board to approve or reject changes.		
An	swer	s	Reference: PMBOK® Guide p.98-99 Sect:4.5.2		
	е	The	e best answer is A		
		i	Project plan updates are an output from Integrated Change Control.		
		ii	Expert judgement and the change control meetings, of the change control board are the defined tools and techniques for this process.		

5		All of the following are true concerning expected monetary value (EMV) except:						
	а		cision tree analysis is more effective using net present values (NPV) in calculations rather than EMV.					
	b	The	e EMV of an opportunity is generally a positive value.					
	O	EMV is a statistical concept that calculates the average value of a future scenario that may, or may not happen by multiplying the value of each possible outcome by the probability of it occurring and summing the products.						
	d	The	e EMV of a threat is generally a negative value.					
An	swer	s	Reference: PMBOK® Guide p339 Sect: 11.4.2.2					
	е	The	e best answer is A					
		i	EMV is calculated by EMV = probability * impact.					
		ii	If there are several different possibilities, the EMV is calculated for each option and the EMVs added together to give an overall, value.					
		iii	Decision tree analysis is based on EMV.					



6	Co	-locat	tion is one of the techniques used to:	Ch.9
	a Ensure effective control over the work of the project team.			
	b	Dev	velop the project team.	
	c Define the organisation structure.			
	d	d Acquire the project team.		
Answer		Ners Reference: PMBOK® Guide p277 Sect: 9.3.2.5		
	е	The	e best answer is B	
		i	Co-location involves placing the active project team members in one location to enhance their ability to perform as a team.	
		ii	This is one of the tools and techniques listed in the Develop Project Team process.	
		iii	Co-location may assist in improving the coordination and control of the project's work but this is a secondary benefit and consequently not the best answer from the PMBOK's perspective.	

7		hen managing a complex, cross functional project; which of the llowing structures will give the project manager the most authority?				
	а	Bala	anced matrix.			
	b	Strong matrix.				
	С	c Functional.				
	d Weak matrix.					
An	Answers Reference: PMBOK® Guide p22-26 Sect:2.1.3		Reference: PMBOK® Guide p22-26 Sect:2.1.3			
	е	The	e best answer is B			
		i	Strong matrix organisations provide the project manager with a similar high level of authority to a projectized organisation and full time project administration staff.			
		ii	Matrix organisations include both functional and projectized management structures.			

8			ship in a project environment should demonstrate all of the g characteristics except:	Apx.X3		
	а		e focusing of the efforts of a group of people on achieving a common ective.			
	b	b High levels of respect and trust.				
	O	c The ability to get things done through others.				
	d	A primary focus on external senior managers and other key stakeholders to ensure the project is a success through managing upwards.				
An	swer	s	Reference: PMBOK® Guide Appendix X3.1, p513			
	е	The	e best answer is D			
		i	Whilst managing upwards (or advising upwards) is a key skill of the project manager, it is not the primary focus of leadership.			
		ii	The primary focus of project leadership is on developing the project team and empowering them to achieve the project outcomes.			



9	The	proces	ses included in project communication management are:	Ch.10
	а		Requirements, Plan Communications, Distribute Information and Communications.	
	b Identify Stakeholders, Collect Requirements, Plan Communications, Distribute Information, Manage Stakeholder Expectations and Report Performance.			
	O	Plan Communications Management, Manage Communications and Control Communications.		
	р		Requirements, Plan Communications Management, Manage unications and Control Communications.	
An	swer	s R	eference: PMBOK® Guide p287	
	е	The be	st answer is C	
		i Ti	his is a common type of question.	
		ii C	ollect Requirements is a Scope Management process.	
		iii U _l	pdate project documentation is an output from a range of processes.	

10		Which of the following is true concerning the work breakdown structure (WBS)?					
	а		e PMI WBS and PRINCE2 product breakdown structure (PBS) are actively the same thing.				
	b	The	e WBS is the same as the organisational breakdown structure (OBS).				
	С		e WBS is a hierarchical decomposition of the total scope of work to be ried out by the project team.				
	d		e WBS is the bill of materials (BoM) needed to accomplish the work of project.				
Ans	wers	Pers Reference: PMBOK® Guide p126 Sect: 5.4					
	е	The	e best answer is C				
		-	The difference between the PBS and the WBS is the PBS only contains the products to be delivered, the WBS contains all of the work needed to achieve the project's objectives including all of the deliverables (not just the 'product'). Non-product elements in the WBS include project management work, safety and hygiene work, etc.				
		ii	The OBS is the document that defines the lines of management responsibility within the project. The point where the OBS and WBS intersect is known as a 'control account' and defines the manager responsible for a section of the project work.				
		iii	The BoM only describes the materials used in the work, not the other elements of the project (eg, labour). The WBS defines all of the work and consequently all of the costs.				

11	All	of the following are true of cost plus fixed fee (CPFF) contracts, except:	Ch.12
	а	The seller is reimbursed for all allowable costs incurred performing the contract work.	
	b	The seller receives a fixed fee calculated as a percentage of the initial estimated project cost.	
	С	The fee does not change based on the performance of the seller.	
	d	The seller receives a fee calculated as a fixed percentage of the actual project cost.	



Ans	Answers		Reference: PMBOK® Guide p364 Sect: 12.1.1.9	
	e Th		e best answer is D	
		i	CPFF contracts pay a fixed fee to the seller based on the initial estimated value of the work.	
		ii	All allowable costs are reimbursed by the buyer.	
		iii	The only time the fee will change is if the buyer changes the scope of the work.	

12	to a	ring a meeting with some of your project's stakeholders, you are asked add to the project's scope of work. The project records contain respondence from before the Charter was signed in which the project onsor specifically declined the work being requested by these keholders. The BEST thing for you to do is:	Ethics
	а	Tell the stakeholders the work cannot be added.	
	b	Evaluate the cost and time impacts of adding the work.	
	С	Add the work if it can be accommodated within the existing budget.	
	d	Talk to the sponsor and let her know of the request.	
Ans	wers	Reference: PMI Code of Professional Conduct	
	е	The best answer is A	
		i PMI expects the project manager to manage! The best thing to do first is try to resolve the problem with the stakeholders. Only is that fails should the problem be escalated to the sponsor.	
		ii Whilst planning and evaluation are normal 'first steps' in assessing a change, this work was formally excluded from the project before the Charter was signed. Therefore it should not be added without the sponsor's prior approval.	

13	An	alogo	ous estimating when applied to a duration is:	Ch.6
	а		sed on expert judgement and is consequently more accurate than ndard critical path estimating.	
	b	Use	ed when there is a limited amount of detailed information available.	
	С		alculation based on a three point estimate using a modified BETA ribution.	
	d	The	e same as 'bottom up' estimating.	
Ans	Answers		Ners Reference: PMBOK® Guide p169 Sect: 6.5.2.2	
	е	The	e best answer is B	
		i	Analogous estimating uses the duration from a similar completed activity or project as the basis for the current estimate. This is a 'top down' estimating technique used when there is little detailed information available.	
		ii	The critical path method is a precise set of calculations applied to the schedule (including the estimated durations). It is not an estimating process.	
		iii	The PERT technique uses three point estimates and a modified BETA distribution to assess the probability of completing the project in a given timeframe.	



14	The	e cod	le of accounts:	Gloss.
	а	ls th	he system used to keep track of purchases and contracts.	
	b		any numbering system used to uniquely identify each component of the rk breakdown structure.	
	С	Link	ks the work breakdown structure to the schedule task identifier.	
	d		he alpha-numeric reference used in the organisations accounts system dentify cost centres.	
Ans	Answers		Reference: PMBOK® Guide Glossary p531	
	е	The best answer is B		
		i	The chart of accounts refers to the accounting system, the code of accounts to the WBS. Whilst these should be linked, they are not the same.	
		ii	Links between the WBS and the activities in the schedule are required; however, this information is usually in a code field or a text field, not the Task ID. There are likely to be several activities to each WBS element and the WBS code of accounts is a fixed structure. Task IDs can change.	

15	Αp	rocurement audit will consider all of the following except:	Ch.12
	а	The changes in market conditions between the contract date and the current time.	
	b	Any successes or failures in the process that warrant recognition.	
	С	The complete procurement process from initial planning through to the administration of the procurement.	
	d	Any lessons learned that can be applied to future procurement processes.	
Ans	wers	Reference: PMBOK® Guide p388 Sect: 12.4.2.1	
	е	The best answer is A	
		i PMBOK audits are focused on process improvement. They review how the system is working to learn lessons to apply to future procurements both within the project and on other projects within the organisation.	

16	The	e Del _l	phi technique has all of the following characteristics except:	Ch.11
	а		a technique to reduce bias and prevent any one person from exerting lue influence.	
	b	It is	a way to reach a consensus of experts.	
	С	It is	an Oracle® database application used to optimise future outcomes.	
	d	Indi	ividual experts are unaware of who else is participating in the process.	
Ans	wers		Reference: PMBOK® Guide p324 sect:11.2.2.2	
	е	The best answer is C		
		i	The Delphi technique is a facilitated process to reach a consensus of experts using questions and feedback. Only the facilitator is aware of who is participating.	
		ii	No PMI question is likely to have a proprietary tool as the correct answer.	



17	Αb	oindir	ng contract is legally created when:	Law
	а	The	e formal contract documents are signed by your senior management.	
	b	Wh	en your legal department advises the contract is acceptable.	
	С		e formal contract documents are signed by official representatives of h parties.	
	d	The	ere is an offer, acceptance, performance and consideration.	
Ans	Reference: Contract Law + PMBOK® Guide p377 sect:12.2.3.2			
	е	The	e best answer is D	
		i	Contracts do not have to be in writing or signed. Whilst it is difficult to enforce the terms of a verbal contracts the law will recognise the validity of the agreement.	
		ii	The four basic requirements for a contract are: - Someone makes an offer to do something, - The offer is accepted unconditionally, - There is an intention or actual performance of the offer,	
			- There is an intention or actual transfer of a valuable consideration (the consideration does not have to be money, just of value).	
		iii	There are many additional factors that can influence this basic starting point that project managers and administrators need to be aware of.	

18		The basic decision making styles normally used by project managers include all of the following except:				
	а	Coi	n flip (random).			
	b	Cor	mmand.			
	С	Cor	nsultation.			
	d	Rat	ional choice theory			
Answers		wers Reference: PMBOK® Guide Appendix X3.6 p516				
	е	The	e best answer is D			
		i	Rational choice theory is a framework for understanding and often formally modelling social and economic behaviour.			
		ii	The 4 options in the PMBOK are command, consultation, consensus and coin flip.			
		iii	Coin flip is used when it really does not matter which option is chosen as long as there is a decision (eg, should we meet at McDonald's or Burger King for lunch).			

19	FP	IF is	an acronym for:	Gloss.
	а	Fix	ed Price Incentive Fee	
	b	Firr	m Price Incentive Free	
	С	Fixed Price Indicator Factor		
	d	Fas	st Performance Incentive Fee	
Ans	wers		Reference: PMBOK® Guide Glossary p524	
	е	The best answer is A		
		i	FPIF is a form of contract where the seller can earn an incentive fee on top of its fixed price for the work if it achieves a specified objective such as a zero accident or defect rate or completion before a specified target date.	



20	The	e Cor	ntrol Costs process includes all of the following except:	Ch.7
	а	Info cos	orming appropriate stakeholders of all approved changes and associated ts.	
	b	Influ	Influencing factors that create changes in the authorised cost baseline.	
	С	Dev	veloping the cost performance baseline.	
	d	Acti	ing to bring expected cost overruns within acceptable limits.	
Ans	wers		Reference: PMBOK® Guide p215-216 Sect 7.4	
	е	The best answer is C		
		i	Developing the cost performance baseline is part of the Determine Budget process (see: 7.3.3.1).	
		ii	All of the other options are listed as inclusions in the Control Costs process.	

21			e following statements are true about product and project life except:	Ch.2
	а	Ger	nerally a product lifecycle is contained within a project lifecycle.	
	b		roject life cycle is determined by the organisation and generally consists phases that may be sequential or overlapping.	
	O		roduct lifecycle is determined by the organisation and generally consists sequential phases.	
	d	Ger	nerally a project lifecycle is contained within a product lifecycle.	
Ans	Answers		ers Reference: PMBOK® Guide p38 Sect: 2.4	
	е	The	e best answer is A	
		i	Products are created, marketed, upgraded and eventually retired or decommissioned. The phases are determined by the organisation.	
		ii	Projects are used to create the product, upgrade the product and potentially decommission the product. Projects typically fit within or form one phase of the overall product lifecycle.	
		iii	The phases of a project's lifecycle (eg, design, build, install) are different to the 'process groups' discussed in the PMBOK. The five process groups (initiate, plan, execute, monitor & control, and close) occur at different levels of intensity in each project, and each phase of a project.	

22	As	As part of a successful communication, the receiver is responsible for:			
	а	Making sure the information is clear and complete, understood and acknowledged.			
	b	Making sure the information is received in its entirety, understood correctly and acknowledged.			
	С	Making sure the information is clear and complete, understood and agreed with.			
	d	Listening actively to ensure all of the information is received.			



Answers			Reference: PMBOK® Guide p293-294 Sect: 10.1.2.3	
	е	The	e best answer is B	
		i	Communication can be written or oral, therefore 'd' is not the best answer. Both the sender and receiver need to use active listening if the communication is oral.	
		ii	The sender is responsible for making sure the information is clear and complete, not the receiver.	
		iii	For a communication to be successful the receiver needs to acknowledge its receipt to the sender, the receiver does not have to agree with the information.	

23		All of the following people developed management theories focused on motivation except:					
	а	Ma	Maslow.				
	b	McGregor.					
	c Hertzberg.		rtzberg.				
	d	d Deming.					
Ans	Answers		Reference: General management theory.				
	е	The	e best answer is D				
		i	W. Edwards Deming is a quality guru.				
		ii	Maslow developed the Hierarchy of Needs.				
		iii	McGregor developed the Theory X and Theory Y				
		iv	Herzberg's developed the Hygiene Theory				

24	The	e pro	ject charter has all of the following characteristics except:	Ch.4		
	а	lts	primary use is to authorise the start of a project or phase.			
	b		It provides the project manager with authority to apply resources and expend money on project activities.			
	С	Its	primary use is to request bids or proposals for the work it defines.			
	р	res	The project charter can be created by the person external to the project, responsible for the authorisation of the work, or that person can delegate the creation of the project charter to the project manager.			
Ans	wers		Reference: PMBOK® Guide p66-72 Sect: 4.1			
	е	The	e best answer is C			
		i	Statements of work (SOW) and other procurement documents are used to request bids or proposals.			
		ii	The work of creating the project charter can be delegated to the project manager; however, the charter should be signed by the person responsible for authorising the project.			



25			e following are true concerning enterprise environmental factors ccept:	Ch.1
	а		F do not include the organisations purchasing guidelines because this e of function is managed by the Accounts Department.	
			F include the tools, systems and software that comprise the project nagement information system (PMIS).	
	С	EEI	F incorporates the organisation's culture, structure and processes.	
	d		F include all relevant laws, regulations and standards imposed by all els of government, industry bodies and society.	
Ans	wers		Reference: PMBOK® Guide p29, sect: 2.1.5	
	е	The	e best answer is A	
		i	EEF refer to both the internal and external environmental factors that surround or influence a project.	-
		ii	Purchasing guidelines are part of the organisations governance systems and constrain the project management's options in respect of acquiring goods and services.	

26			the following statements concerning the project scope statement are except:					
	а	It is	an output of the Validate Scope process.					
	b	It d	escribes the project's deliverables and the work needed to create them.					
	С		It may contain explicit scope exclusions that can assist in managing stakeholder expectations.					
	р	It provides a common understanding of the project's scope among the project's stakeholders.						
Ans	Answers		Reference: PMBOK® Guide p123 Sect: 5.3.3.1					
	е	The	e best answer is A					
		i	The project scope statement is an output from the Define Scope process.					
		ii	Clearly documenting work that is 'out of scope' helps everyone. A typical example is a project may be scoped to develop training materials for the product being developed, but not to conduct the training. A clear statement that 'All training will be undertaken by others and is outside of the scope of this project' prevents stakeholders expecting the project team will undertake the initial training or 'train-the-trainer' training. If these requirements are needed, they can be brought into the project's scope through a change management process.					

27	The	The cost of quality includes all of the following except:		
	а	Buying professional indemnity insurance.		
	b	The cost of defects and rework caused by failing to achieve requirements.		
	С	The cost of inspecting and appraising conforming products produced by the project.		
	d	Preventing non-conformance to requirements.		



Ans	wers		Reference: PMBOK® Guide p235 Sect: 8.1.2.2	
	e Th		e best answer is A	
		i	Buying insurance is a risk transference process (the risk is transferred to the insurer).	
		ii	The cost of quality (COQ) is the direct costs incurred in prevention, inspection and repairs.	

28	The	e responsibility assignment matrix (RAM) shows:	Ch.9	
	а	The connections between activities and project team members.		
	b	The delegation of responsibility through the hierarchically organised management structure.		
	С	Accountabilities to assist in team performance appraisals.		
	d	The sequence of activities a named resource is responsible for accomplishing.		
Ans	wers	Reference: PMBOK® Guide p221 Sect: 9.1.2.1		
	е	The best answer is A		
		i The RAM chart is used to illustrate the connections between work packages or activities and project team members.		

29		Project management process groups have all of the following characteristics except:					
	а		of the process groups are needed on all projects and all of their ractions apply to each phase of a project as well as the overall project.				
	b The process groups are seldom one time, discrete events; they are overlapping activities that occur throughout the project.						
	C		ere a project is divided into phases, the process groups are invoked as propriate.				
	d	The	process groups are linked by the outputs they produce.				
Ans	wers	Reference: PMBOK® Guide p52 Sect: 3.2					
	е	The best answer is A					
		i	Whilst all of the process groups should occur in each project at an appropriate level of intensity, ALL of the processes and interactions within and between process groups are not required on every project or in every phase of a project.				
		ii	The project management team are responsible for determining which processes are appropriate and the appropriate degree of rigour to apply.				

30	Wh	Which of the following represent a discretionary dependency?		
	а	Not starting design until all of the approvals have been received.		
	b	Waiting the specified 72 hours before stripping formwork from a newly poured concrete slab.		
	С	Applying a start-to-start link between two tasks in a PDM network.		
	d	Applying a lag of 4 days between two tasks.		



Ans	Answers		Reference: PMBOK® Guide p157-158 Sect: 6.3.2.2	
	е	The	e best answer is A	
		i	Any link between two tasks (or activities) may be discretionary or mandatory. The link types in a Precedence network (PDM) are: - Finish-to-start - Start-to-start - Finish-to-finish - Start-to-finish. A lead or a lag may be applied to any of the link types.	
		ii	Mandatory dependencies are either inherent in the nature of the work (eg, you cannot put concrete into a foundation until you have dug the hole!), or are contractually required. The specification typically forms part of a contract and would mandate the 'curing time'.	
		iii	Discretionary dependencies are desirable and/or represent best practice. Whilst it is desirable to wait for the final approvals for a project before starting the design it is not mandatory. The project team may decide to take a calculated risk and start some design work before all of the approvals are received.	

References:

- Ch.X = PMBOK® Guide Chapter #
- Gloss. = PMBOK® Guide Glossary
- Apx.X3 = PMBOK® Guide Appendix G (Interpersonal Skills)
- The PMP exam covers significantly more then the PMBOK, Three sample questions on Management Theory, Contract Law and Ethics have been included.

Important Information: The passing score for the PMP examination is not disclosed - whilst these questions are representative of the style of questions found in the PMP examination, no warranty is offered in respect of your likely performance in the examination based on your performance in this limited test. Our experience over many years suggests an average score of 75% in our courses translates to a reasonable level of comfort in the examination; however, this is based on candidates answering many hundreds of questions.

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