

## **CICT PART II SECTION 3**

Process pre standards.

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## SYSTEMS ANALYSIS AND DESIGN

THUR	SDAY: 2	Time	e Allowed: 3 hours.
Answe	r ALL q	uestions. Marks allocated to each question are shown at the end of the question.	
	BANKET .	with of these conditions is met, that the conformer quildies for only 5% meaning. All after	
QUES	TION O	NE .	
(a)	(i)	Formulate four questions answered during the analysis phase in systems development.	(4 marks)
(estrain	(ii)	Highlight two activities undertaken by the project team during the analysis phase.	(2 marks)
	(iii)	Examine three steps taken during system development analysis phase.	(6 marks)
(b)	(i)	Describe the meaning of the term "methodology" in the context of information sys	
		busion Tree.	(2 marks)
	(ii)	Giving an example in each case, examine three ways of categorising methodologies.	
		egolo & orde.	(Total: 20 marks)
QUES	TION T		
(a)		INK Company is located in Kakamega town. It has a stimplified purchasing and invento as follows:	ry track system that
		2 91 mat 91 11130 2	No. 10 T
		w material inventory informs the purchasing department when stock falls below the re-order	er point.
	The pu	rchasing department issues a purchase order to relevant suppliers.	
		ival, goods and invoices are directed to the receiving department where they are recorded verified against a copy of the purchase order.	and the packaging
	produc cheque office.	end of the month, the billing department checks to make sure that all adequate docume es a payment voucher. The payment voucher is processed by a cash disbursement clerk, for the senior accountant signature. The cheque is forwarded to the suppliers destinate the control of the suppliers destinated by the suppli	who then prepares a
	Requir Draw a	red: a level 1 data flow diagram to represent the above scenario.	(8 marks)
(sham			(2 1 )
(b)	Describ	be throwaway prototyping based methodologies in the context of systems development.	(2 marks)
(c)	Evalua	te four challenges of implementing a tightly coupled information system.	(4 marks)
(d)	Examin	ne three roles of each of the following personnels in information systems project:	
	(i)	Change management analyst.	
		star, present full mental infernation	
	(ii)	Business analyst.	(3 marks)
<b>QUES</b>	TION TI		
(a)	(i)	Describe the term workflow in the context of systems development life cycle (SDLC).	(2 marks)
	(ii)	Explain the purpose of testing workflow.	(2 marks)
(b)		Explain the purpose of economic feasibility in systems development.	(2 marks)
	(ii)	Enumerate at least six steps involved during economic feasibility.	(6 marks)
	0.00		

(c)	Describ	be two examples of standards under each of the following categories:		
	(i)	Documentation standards.	(2 marks	)
	(ii)	Coding standards.	(2 marks	.)
	(iii)	Procedure standards.	(2 marks	.)
	(iv)	User interface design standards.	(2 marks	
A cust	ce paymer	onsidered for a discount if and only if the customer is regular. A purchase limit of at least Ksh at in full, qualifies a customer for 10% discount.		
If only		not both of these conditions is met, then the customer qualifies for only 5% discount. All other	cases attract no	0
(skum		Formulate four question:		
Requi	ired: Citing	an example, identify problems with the narrative expression for the customer discount criteria.	(2 marks	;)
(b)	Expres	s the customer discount criteria using the following:		
Te-Constitution in	(i)	Flow Chart. of the leaders are the second of the animal set Company	(3 marks	)
(rekter	III NAV	Decision Tree.	(3 marks	3)
		Limited Entry Decision Table.	(3 marks	;)
	(iii)	000	(3 marks	
(2)18	(iv)	Pseudo Code.	T 10531719 T-10	5
(c)	(i)	Define Root Definition in the context of soft system methodology (SSM).	(2 marks	
	(ii)	Provide a general format for writing root definition.	(2 marks	s)
200 S	STION F	ival, goods and invoices are		185
(a)		THE CONTRACTOR OF THE CONTRACT	service	c)
	Discus	ss five ways you could use to overcome system integration challenges. I and not the street and the		5)
(b)	Descri	be the purpose of the following CASE tools:		
	(i)	Upper case tools.	(1 marl	k)
	(ii)	Lower case tools.	(1 marl	k)
	2075	Integrated case tools.	(1 marl	k)
(c)	A sale	s order process is conducted as listed in the following steps:		
	1.	Customer browses catalog and selects items to buy.	Especie	(b)
artes	2. 23.	Customer goes to check out.  Customer fills in shipping information (address, next-day or 3-day delivery).	(L):	
Locker	4. 5.	System presents full pricing information.  Customer fills in credit card information.		
		Credit card company authorise credit card purchase.		
	7.	System confirms sale immediately.	T YOUTSE!	10
(200)	8.	Credit card company process credit card payment.  System sends confirmation email to customer.		(a)
		man a community and the second self-relative in	(8)	
(sohe	Requ Draw	a LIMI use case diagram for the above scenario.	(12 mark	
(edu	am S)	<ul> <li>p sprain the purpose of economic forabling in systems development.</li> </ul>	otal: 20 mark	(s)
		Enumerate at least six steps movived during encount feasibility.		
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