(i)	Explain term meta data as used in system analysis and design.	(2 marks)
(ii)	Explain each of the following terms as used in project scheduling: I optimistic time;	(2 marks)
	II early start time.	(2 marks)
Distin	guish between project task and milestone as used in computer projec	t management. (4 marks)
7en ir	stands to develop a system testing relies for him and the stands to develo	
that sh	ne is likely to include in the policy.	(4 marks)
(i)	Outline two benefits of carrying out system maintenance policy in	organizatíons. (2 marks)
(ii)	Parallel changeover is widely used by system developers during systemplementation. Explain two advantages that are associated with the scheme.	stems nis changeover (4 marks)
	Zep in that sh	II early start time. Distinguish between project task and milestone as used in computer project Zep intends to develop a system testing policy for her company. Outline for that she is likely to include in the policy. (i) Outline two benefits of carrying out system maintenance policy in (ii) Parallel changeover is widely used by system developers during system.

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(a)	(i)	Outline two strategies that could be used by systems analyst to mitigate of trends in SAD.	emerging (2 ma
	(ii)	Explain two methods that could be used to acquire new information systeorganization.	em in ar (4 ma
(b)	Disti	nguish between cardinality and relationship as used in entity relation diagr	ams. (4 ma
(c)		each of the following SDLC stages, outline three objectives that the systeme to achieve:	analysi
	(i)	feasibility studies;	(3 ma
	(ii)	maintenance.	(3 ma
(d)	Traci ident	ey, an intern student with a certain company was required to carry out prob tification for a proposed information system. Outline four rules that she is I	lem ikely to (4 ma

(a)	(i)	Explain the term <i>environment</i> as used in information systems.	(2 marks)
	(ii)	Distinguish between adaptive and probabilistic systems.	(4 marks)
(b)	Josep syster	h intends to develop a political information system. From the prelin n had undefined requirements.	ninary studies the
	(i)	Identify the most appropriate system development approach he co your answer.	uld use justifying (2 marks)
	(ii)	Explain two advantages of the approach identified in (i).	(4 marks)
(c)	(i)	Differentiate between static and dynamic testing as used in system	s implementation. (4 marks)
	(ii)	The following is description of a diagnostic module used in a clinic. The system would prompt the nurse to enter the patient temperature.	•
		whether the temperature is positive or negative. If the temperature system will terminate else will convert the temperature to Fahrenh diagnosis report	is negative then

	Draw a	program nowchart to represent the logic of the module.	(4 11141)
	,		
(a)	(i) Outline	e three reasons of using data dictionary in system development.	(3 mark
		intends to use structured analysis approach for her research project nitations that she is likely to experience with the approach.	. Explain (4 mark
(b)		eds to use observation method to investigate a proposed system. Out of her method of data collection.	tline five (5 mark
			· · · · · · · · · · · · · · · · · · ·
(c)	menu that con pending order details are stor in the invento files. The wai	td. intends to use a self-service system to allow its customers to order is sist of food, beverages and drinks. The order details are then stored file which is then assigned to one of the hotel chefs for processing; ared on the chef file. The chef is required to verify the order based or ry file. When the food is ready the chef updates both the waiter and ter then serves the customer with the order and receives a payment the cashier who then issues the customer with a receipt and updates is respectively.	on a the chef the deta pending which is
	Draw a Level	1 dataflow diagram to represent the hotel system.	(8 mar

			•
			
(a)		ribe each of the following types of nodes as used in decision trees:	
(a)	Descr (i)	ribe each of the following types of nodes as used in decision trees: chance/event;	(2 marks
(a)	(i)	chance/event;	(2 marks
(a)			
(a)	(i) (ii)	chance/event; terminal/edge;	(2 marks
(a)	(i)	chance/event;	

					-
					
					-,,,
Tabl	le 1 s	hows details for a pro	posed system proje	ct in a certain	organization. Use it to
		ne question that follow			1
	ent/	Activity	Duration (weeks)	Precedence	
A		Hardware selection	6	-	
В		Software design	4	-	
C		Install hardware	3	A	
D		Coding and testing	4	В	
E		File conversion	3	В	
F		User manual	10	-	
H		Training	3 2	F	
Tabl		Install and Test	L 2	D	
(i)	C	Outline two uses of a v	user manual,		(2 ma)

Outline two advantages of rapid system development. Poly intends to use prototyping to develop an information system for he Outline five strengths of the approach that could have influenced her.	
Poly intends to use prototyping to develop an information system for he	(2 marks)
Poly intends to use prototyping to develop an information system for he Outline five strengths of the approach that could have influenced her.	
	er company. (5 marks)
ex Systems Company Ltd. intends to use computer-based training sessions for ew information system.	or the users of
Explain two advantages of the training method that could have influence company.	ed the (4 marks)
Explain two limitation of the method.	(4 marks)
line four quidalines that about 131 - C 11 - 1 - 1 - 1 - 1	nentation. (4 marks)
Him	e four guidelines that should be followed when developing system docum

(b) Table 2 shows net profits for project A and B respectively. Use it to answer the questions that follow.

Year	Project A (Kes)	Project B (Kes)
1	30,000	46,000
2	40,000	46,000
3	35,000	40,000
4	45,000	46,000

Table 2

	(1)	given that the initial cost for the two projects was Kes 150,000 and Kes I respectively.	
	(ii)	Calculate the payback time for each of the project.	(3 marks)
	(iii)	Explain two limitations of using the payback technique on the project.	(4 marks)
(c)	(i)	State two types of stakeholders in a system project.	(1 mark)

(a) Outline four qualities for a good output design in an information system. (4 marks) (b) Jackson System Development (JSD) is a linear system development method. Explain three typical steps/stages that could be followed when using the methodology. (6 marks) (c) Afueni Bank Ltd. intends to develop an agency banking system to carter for its growing number of customers. The proposed system will allow agents to register new bank accounted deposits, withdraws and fund transfers for the bank customers.			information system. Explain two risk management techniques that she co	(4 marks)
(b) Jackson System Development (JSD) is a linear system development method. Explain three typical steps/stages that could be followed when using the methodology. (6 marks) (c) Afueni Bank Ltd. intends to develop an agency banking system to carter for its growing number of customers. The proposed system will allow agents to register new bank accounts.				
typical steps/stages that could be followed when using the methodology. (6 marks (c) Afueni Bank Ltd. intends to develop an agency banking system to carter for its growing number of customers. The proposed system will allow agents to register new bank accounts	(a)	Outlin	e four qualities for a good output design in an information system.	(4 marks
number of customers. The proposed system will allow agents to register new bank accounts	(b)			
number of customers. The proposed system will allow agents to register new bank accounts				
number of customers. The proposed system will allow agents to register new bank account	(c)	Afuer	ni Bank Ltd. intends to develop an agency banking system to carter for its	growing .
	(0)	numb	er of customers. The proposed system will allow agents to register new ba	nk accounts
		·		

(d)	Arc Sport Club Ltd. intends to carry out a raffle competition in aid of its community project. The winner of the raffle must have been a club member for at least five years and must have bought raffles worth more than Kes 200,000. In addition the winner must be a Kenyan citizen and possess a good track record in sport.	CO
	Drass a degicion troa to represent the legical -Cd.	

bought raffles worth more than Kes 200,000. In addition the winner must be a land possess a good track record in sport.	Kenyan citizen
Draw a decision tree to represent the logical of the narrative.	(5 marks)