বাংলাদেশ ইউনিভার্সিটি অব প্রফেশনালস্

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সেকশন/গ্রুপ ১০২০০ - A					
মোট পৃষ্ঠা সংখ্যা 1	7				
BSc. in CSE-17 Spring Final Feb-21 内部(Examina	ation), 20	21			
বিষয় (Subj): System Analysis, Design and Development পত্ৰ/কোৰ্স নং (Paper/Course No): CS					
পত্র/কোর্সের নাম (Paper/Course Name): <u>CSE-17</u> কেন্দ্র (Center): <u>MTS</u>					
রেজিঃ নম্বর (Regn No): 131401170018 শিক্ষাবর্ষ (Session): 2019-2					
'রোল নম্বর (Roll No): 201714018 তারিখ (Date): 10-02-20		.,			
		-4			
INSTRUCTIONS FOR EXAMINEE					
1. Examinees are forbidden to write their names either on outer cover page or					
anywhere of the answer scripts. In case of violation, the answer script will not be					
evaluated.	প্রশ্ন নমর	ob			
2. Examinees must mention their roll and registration number along with	2 म नवप्र	প্রদন্ত নম্ব			
session on the outer cover page of the answer scripts clearly. Otherwise, answer	2				
scripts may not be evaluated.	৩				
3. Students will write his examination roll number on the top left corner and	8 ¢				
section-A/B on the top right corner of each page. All pages must be numbered	৬				
chronologically at the bottom center in x of y format. (for example: 1 of 21)	٩				
4. In no case, an examinee will be allowed to start the examination half an hour	ъ				
after the commencement of examination.	20				
5. The Camera of the examinee MUST always be ON during the examination	>>				
and answer script submission. If Camera is OFF then that online examination will	ડેર				
be treated as CANCELLED.	20				
6. The focus of the camera should be such that the invigilator(s) can see the	78				
script and examinee with his/her surroundings.	মোট				
7. Students are to share their entire screen of desktop/laptop to the invigilator					
throughout the online examination					
8. Browsing any files other than the given question paper (PDF) and/or online	-	· · ·			
sites other than the respective allowed examination platform (e,g Zoom, Google	পরীক্ষকে	র সাক্ষর			
classroom etc.) is strictly prohibited.					
9. Online invigilators reserve the right to take remote access of the examinee's					
desktop/laptop and investigate as needed at any point during the examination or	[]				
area often the examination	নিরীক্ষবে	গুৰাক্র			

Students without laptop/desktop cannot appear exam online by using

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mobile phone. Students not possessing laptop/desktop, will have to appear

examination Physically at MIST.

INSTRUCTIONS FOR EXAMINEE

- 11. Examinees must abide by the instructions of chief invigilator if there are no definite instructions on any subject/matter.
- 12. No examinee will be allowed to leave the examination session until an hour has elapsed from the commencement of examination.
- 13. Legal action will be taken against the examinees those are trying to adopt/adopting unfaimeans/exibiting unbecoming conduct in the examination hall and found guilty for any breach of discipline as per rule.
- 14. Invigilators will have complete authority of deducting marks from any student attempting unfair means.
- 15. All rough works should be done in the same paper used as answer scripts. Answer scripts should be submitted intact. Papers used for rough work should be pen through by the examinees and submitted along with the answer script.
- 16. The answer scripts submitted beyond specified time will be treated as CANCELLED.
- 17. The examinee will send his/her scanned examination script in PDF format to the following e-mail addresses:
 - (a) e-mail address of subject invigilator/examiner.
 - (b) Central Database Scheme (coursecode@mist.ac.bd)
 Example: EECE433@mist.ac.bd
- 18. The examinee has to preserve the original answer script of every examination and be ready to submit whenever asked for.
- 19. Answer script should be the A4 size papers with a cover page provided by Department. Examinee has to fill up his/her necessary details on the cover page. Section A and section B must be clearly marked on the cover page like. Section A or Section B
- 20. Examination duration for each subject will be two hours (section-A for one hour + section B for One hour). In between students will get 15 minutes time to submit the answer script of section A and 5 minutes time to issue the question for section B. After completion of 01 hour examination time for section B, students will get 15 minutes to submit the answer script of section B.
- 21. After completion of written examination (online/physical), viva will be conducted by the respective faculty of that subject.

Section-A

Ans. to the ques. no.-01(a)

The key issues of making IT projects different from others types of projects are listed and discussed below:

- DLack of clear goals and success criteria.

 Most It projects are software based or system application based, they often lack the clear goal of the software apart from the output required. Where other projects (besides IT) have a clear goal and success criteria.
- DIndequate skills an of team member: IT projects needs to have the team to be knowledgeable withe the technology latest and updated. The lack of skills of team members in outt project is common. That is why IT project is different than others project types.

P.T.O.

(3) Inadequate risk management. It project are often data driven projects and data reside on computers. So, lost of data orc damage to infrastructure is a risk to an IT project. An IT project often lacks the adequate risk management and disasters controls. That is why inadequate risk management is a key insue that makes IT projects different than others types of projects.

Deach of communication. It projects needs
the communication with an non-technical
users with the technical terms. This
issue is often lacks in a IT project
orangement due to impatience of both
or eithers the analyst on the user. That
is why IT projects are different from
others types of projects.

An. to the gues. no. -01(b)

Success factors for the given online Home Rental management System for minpun-DOHS are listed below:

Scope goal;

The project needs to covere all the scopes mentioned in the description. The possible scopes that ensures the success are:

- search using keywords like property type, location etc.
- landlords, have provision to post/update Theirs property details.
- post/update preoperty ne should need admin approval.
- the comple. Letails of property.
- tenands should be able to ishoutlist their preferences and registers to book for a site visit.
 - Members registration.

6 . J-0.

Time goal:

The IT project must be completed by the time mentioned one agreed upon before the project initiation by project managers and project sponson.

Cost goal:

the project rental management system should be completed within the budget agreed beforehand.

And the project needs to have the following additional tactor.

- the project needs to be recurre.
- the project should have nice and aesthetic usera interface so that more and more tenants we the system.
- the project should have users verification and validation features.
- the project should have propers disasters/ necovery plan.

P.T.O.

- the project has to be satisfied by the projects sponser and all the requests of the projects organization should be met and implemented properly.

These are the all possible success factors for the IT project; Ordine House Rental management System for MIRPUR-DOHS.

Am. to the ques. no. - 01 (c)

Major security threats to system are listed below:

- 1 Errors and omissions.
- 2 Disgruntle and dishonest employees.
- 3 Fine,
 - (9) Natural disasters,
 - 5 Exterenal attacks etc.

of all the threats to system security most of the time internal errors on accidents and dishonert employees revenge on the system is very amont servious. Be cause the disgruntle and dishonest employee's have the complete Knowledge of the system and have authorization and accen le system sensitive parts which can lead to potential system didder and often can cour the organization to litigation

06 OF 11

Also intere erenore ore mosteponistakes can also cause servious damage to the roystem as they have the access to complete control of the system.

that is why these threats are the most serious and needs caruful imspection and propers disasters recovery plan.

Miles.

Ans. to the ques. no. -03(a)

in Decision tree based on the relatement as drawn below:

Airline Policy Panengers who Parsengen wo fly more than 4 Parsengers fly hers than traveling 100000 miles per 100000 miles distance calendar year per calendar yearz Tickent
Payment
type Pay cash for Li chets < Flying the have been flying have been flying more than 5 years more than 5 years airline forz

Receives afree Romound - trip ticket around the would

Receives a free round-trip ticket around the world. Reward
as to
encourage
parrengen
(outcome)

Fig: Decision tree for the airline policy statement.

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P.T.A

(ii) Amo A Decision table for passengers free licket in developed below:

	Condition Stub		Cond	lition entry
		1	2	
	O Pamengers fly more than 100000 miles per calendar year	Υ	N	
IF	@ pay cash for ticket	Y	N	
1	3 Flying for more than 5 years	Y	Y	А
	Opomengens fly less than 100000 miles per calendar years		Y	s
			196	
THEN	OReceive a free round-trip stilled around the world.	×	×	
	Action Stub	1	Action	1 entry

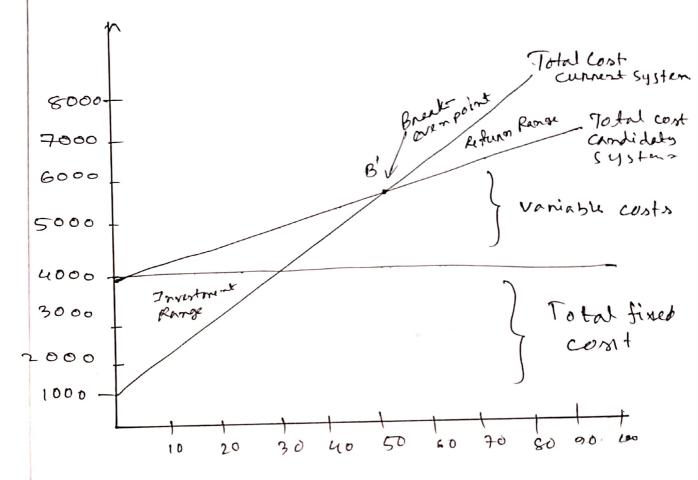
Hene, Y -> Yes N -> No X -> Action taken

Fig: Desigton table for the pamerger tree Ricket.

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Am. to the ques. no. -03(b)

Free-hand break-even chart and pointing the break event point in given helow:



processing volume ->

Fig: Break-Event chart and Break even point.

Am. to the ques. no. -03(c)

Prisent value analysis:

Present value analysis is a long-term
project's present costs with future
benefits. In this method cost and benefit
are calculated in term of talay's
value of investment.

who know,

$$P = \frac{F}{(1+i)^{m}}$$

$$= \frac{2500}{(1+0.12)^{2}}$$

$$= 901.52 \text{ Tk}.$$

So, preset value in 801.52 Tk.

An