STUDENT NO.						
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EXAMINATION SCRIPT



DEPARTMENT:	CSE

BANGLADESH UNIVERSITY OF ENGINEERING AND TECHNOLOGY

COURSE NO.	CSE325		DATE	20-01-2021
COURSE TITLE	Information	System	Design	

SECTION B

Declaration on the Online Course Conduct by Undergraduate Student of BUET for COVID-19 Situation

Please write the declaration (as per no. 2 of 'Instructions' given in the footer) below in your own handwriting and sign it.

On my honour, I bearing Student No. 1605004 hereby declare that, I shall not misuse, in any form or method, the course materials including Lecture Notes, Reading Materials, Audio and Video Records of the Lectures of this course. I shall not adopt any unfair means during the Final Examination and shall not receive any help or offer/provide help to anyone. I shall preserve hard copy and soft copies of the answer scripts and will not expose the same to any person/media/party. I agree to accept any punitive measure taken by BUET Authority if at any time during of after the completion of the course it is revealed/violated otherwise.

Signature Redwan

Date.....20-01-2021

Instructions

- Clearly enter your Student ID, Course Number, Course Title, and Date in the space provided. Complete the declaration exactly as below with your signature and date. You can also insent the scanned image of your handwritten declaration in this box.
- 2. Declaration: I shall not misuse, in any form or method, the course materials including Lecture Notes, Reading Materials, Audio and Video Records of the lectures of this course. I shall not adopt any unfair means during the Final Examination and shall not receive any help or offer/ provide help to anyone. I shall preserve hard copy and soft copies of the answer scripts and will not expose the same to any person/party/media. I agree to accept any punitive measure taken by BUET Authority if at any time during or after the completion of the course it is revealed/violated otherwise.
- 3. Do not put your name or any other form of identification except the Student No. anywhere in the answer script.
- Use normal/offset white paper preferably of A4 size for writing the answers. Use only one side of the paper for writing. On each page, clearly write your Student ID and Page numbers.

Ans. to Ques 7

(i) (a)

There are 4 paths in total.

path-1:

10-A-20-8-30-D-50-G-60-H-70-I-80 (22 days)

path-2:

10-C-30-D-50-Q-60-H-70-I-80 (19 weeks)

path-3:

10-A-20-B-30-E-40-F-60-H-70-I-80 (19 weeks)

path-4:

10-C-30-E-40-F-60-H-70-I-80 (B weeks)

(ii)

Critical Path:

10-A-20-B-30-D-50-G-60-H-70-I-80

(22 weeks)

(iii)

Initial Time Table:

	•		
Task	Time	Cost	
_ A	2	400	
B	2	600	
C	2	500	·
Ď	2	700	
E	0	1000]× ₇
F	D	1000	× > Cannot Use
G	D	300	\times
Н	0	800	× /
I	1	900	
-			

Initially Paths are:

$$10 - A(2) - 20 - B(2) - 30 - D(2) - 50 - -60 - -70 - I(1) - 80$$

$$10-A(2)-20-B(2)-30-1-40--60--70-I(1)-80$$

(time remaining for expediting)

	Expediting Toble:				
		Activity	Path with Time	cost	To tal Cost
			10-A-20-B-30-D-506070-I-80 (22 weeks)		
			10-C-30-D-506070-I-80 (19)	0	O
			10-A-20-B-30406070-I-80(19)	1	
	A,B,D on I	Α	10-A-20-B-30-D-506070-I-80 (21) 10-C-30-D-506070-I-80 (19) 10-A-20-B-30406070-I-80 (18)	400	400
			10-0-30406070-I-80(16)		
	A,B,D ORI		1020-8-30-D-506070-I-80 (20) 10-C-30-D-506070-I-80 (19) 1020-8-30406070-I-80 (17) 10-C-30406070-I-80 (16)	400	800
	B,D orI	,	1020-8-30-D-50-6070-I-80 (19) 10-C-30-D-506070-I-80 (19) 1020-8-3040607D-I-80 (16) 10-C-30406070-I-80 (16)	600	1400
•	(Bande) ORD ORI		1020-8-30-D-506070-I-80 (18) 10-C-30-D-506070-I-80 (18)	700	2100
			1020-B-30406070-I-80(16) 10-C-30406070-I-80(16)	,	

4

_				4	
	Fligible Act.	Chosen Aet.	Path with Time	cost	To tall
	(Bande)	D	1020-B-30-8-506070-I-80 (17)	700	2800
	or D	•)	10-C-30-8-506070-I-80(17)		The control of the co
	ORI		1020-B-30406070-I-80(16)		•
			10-C-30406070-I-80(16)		
	(B and e)	I	1020-8-3050607080 (16)		
	or I		10-C-3050607080(16)	900	3700
			1020-B-3040607080(16)		i.
	,		10-c-3040607080 (15)		
	Bande	B	10203050607080 (15)		,
		and a	10-6-3050607080 (15)	500 +600	4800
			10203040607080 (15)	=1100	
-			10-6-3040607080 (15) (14)	1	

Final Critical is; all the Paths.

(iv)

If the budget was \$2000, then the project can be expedited to step 3.

Because, step 4 requires \$2100.

(v)

For \$650 per week saving, expediting goes to step 3.

Because, step 4 requires \$700 p for a week.

Ans. to Ques 6.

(a)
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Distributed Data	Distributed Presentation
Application Logic Layer is	Application Logic is on
on the Client.	the Server.
Gets less network traffic	Gets lots of Application
caused due to simple	Logic requests.
Application Logic requests.	
	Bit easier to upgrade.
parts.	
App logie parts meeds	App Logic contained
duplication, on clients	only in Server once
Integnity maintainace	a bit complex and
easierz	harder.

(b)

