## Part B

Department

: CSE

Program

: B.Sc. in CSE

Course No.

: CSE-3223.

Course Title

: Information System Derign and Software Engineering

Examination

: Semester Final

- Semester (Servion): Fall-2020

Student No.

18.01.04.129

Signature, Date:

Md. Anward Habib

## Am. to the Ques. No. 4

(a)

(Program Evaluation and Perion Technique)

PERT: A PERT, Chart on PERT Diagram,

is a project management took used to

schedule, organize and coordinate

tasks within a project. It provides

a graphical representation of a projects

timeline that allows project managems

to break down each individual task

in the project for analysis.

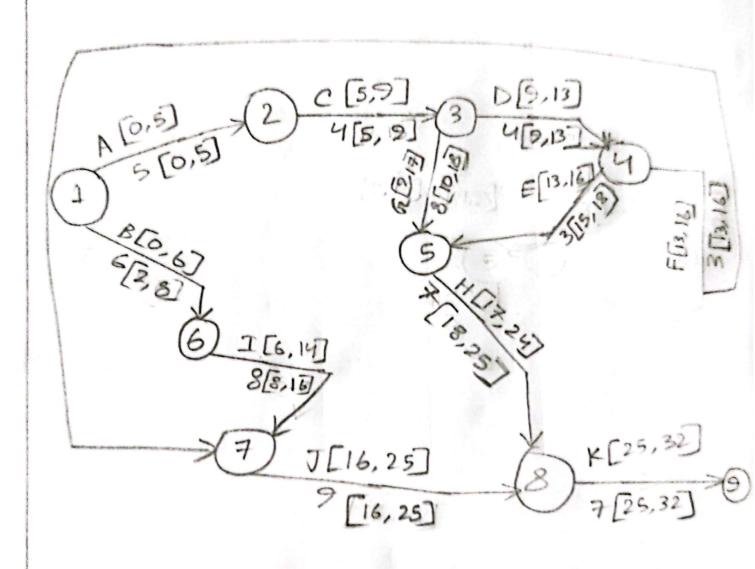
CPM: The Critical Path Method is an algorithm for scheduling a set of project activities. It is commonly used in conjuction with the PERT diagram. A critical path is determined by identifying the longest stretch of dependent activities and measuring of

the time required to complete them from stort to finish.

(b) Activity Rhojend for E-commence Project:

Activity	Predecessons	Duration in Works
A	-	5
B	_	6
C	A	4
D	C	4
E	D	3
F	D	3
G	C	8
. н	C E, G	7
I	B	8
J	F,I	9
K	H,J	7
	1	

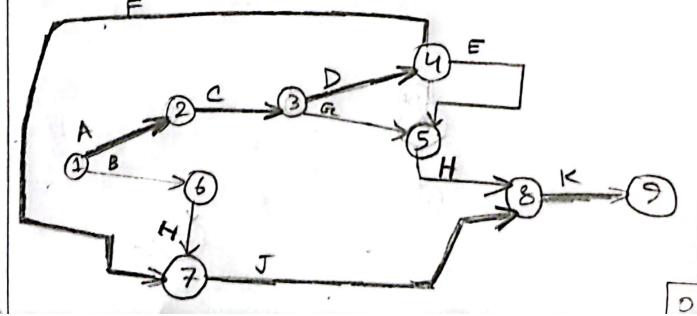
The network (PERT)



## Activity Schedule:

Activity	Farlies & Slat	Latest Start (LS)	EF	LF	lack 15-ES)	Crutical Path
A	0	O	5	5	0	Yes
В	0	2	6	8	2	
C	5	5	9	2	0	Yes
D	2	9	13	13	0	Yes
E	13	15	16	18	2	TO STATE OF THE ST
F	13	13	16	16	0	Yes
G	9	10	17	18	I	
H	17	18	24	25	-	-
I	6	, 8	14	16	2	-
J	16	2916	FB25	25	0	Yes.
K	23	25	32	32	0	Yes

critical Path



18:01.04.129 Md. Anward Habib CSE-3223 A > C > D > F -> J -> K .. Critical Time = 32. (A). Am. to the Ques. No. 5 (a) DFD is the short form of Data Flow Diagram. The data flow of a system or a process

is represented by DFD.

DFD has many elements -

- Processes
- Datatypes
- Data Flow
- External Entity.

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There are 3 levels of DFD and thosese are:

> 0-Level Diagram (Context Level)

> Level-1 Diagram

= Level-2 Diagram

(b)
Use Case Naractives: It is a text
based description of me cases, which
has electrical decision trees or other
understandable notations and symbols

It is an important communication tools between developorer of any system and the internded were of the system.

18.01.04.129 McI. Anward Habib CSE-3223 PSPEC (Process Specification): It is used to describe all flow model processes, at final level of the projects refinement. This method is used to document, analyze and explain the decision making logic and formulas. These used to create output data from process input data. It reduces ambiguity. CSPEC (Control Specification): It represents the behaviour of a system. It contains 'Sequential State Diagream! that is a sequential specification of behaviour.

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Md. Anward Habib 18.01.04.129 CSE-3223 CRC (Class Responsibility Collaboration): It is a brainstorming took, used to derign object oriented software. CRC could a winally + created from index courds. The courd is partitioned into three sections -1) Clars Name 2) Responsibilities 3) Collaborcators A THE STREET AND ALL CONTRACTOR 

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Fig: Level-O DFD (IUMS AUST)