

G.H. Raisoni College of Engineering Npg.  
2020-2021 ODD TERM

CAE-I Examination for Split-II Courses  
Winter-2020

DEPARTMENT: ARTIFICIAL INTELLIGENCE

SEM/SECTION: 3/A

DATE: 14/07/2020

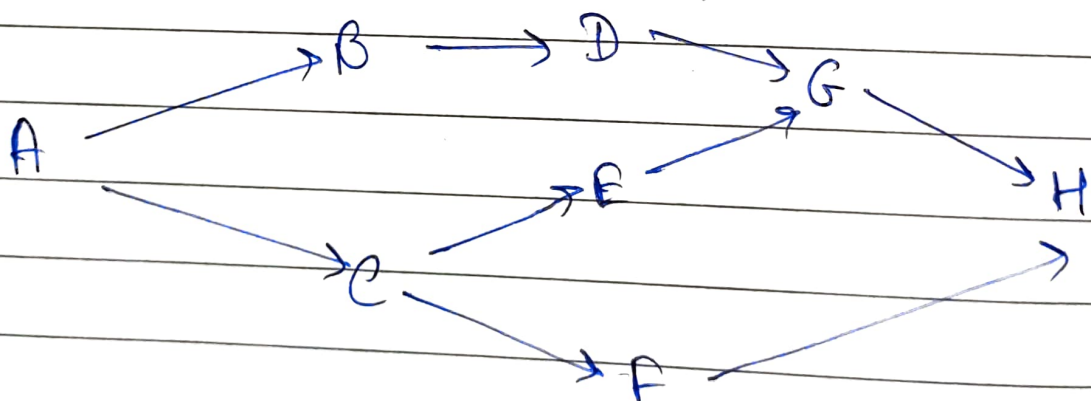
SUBJECT: SEPM

ROLL NO.: 49

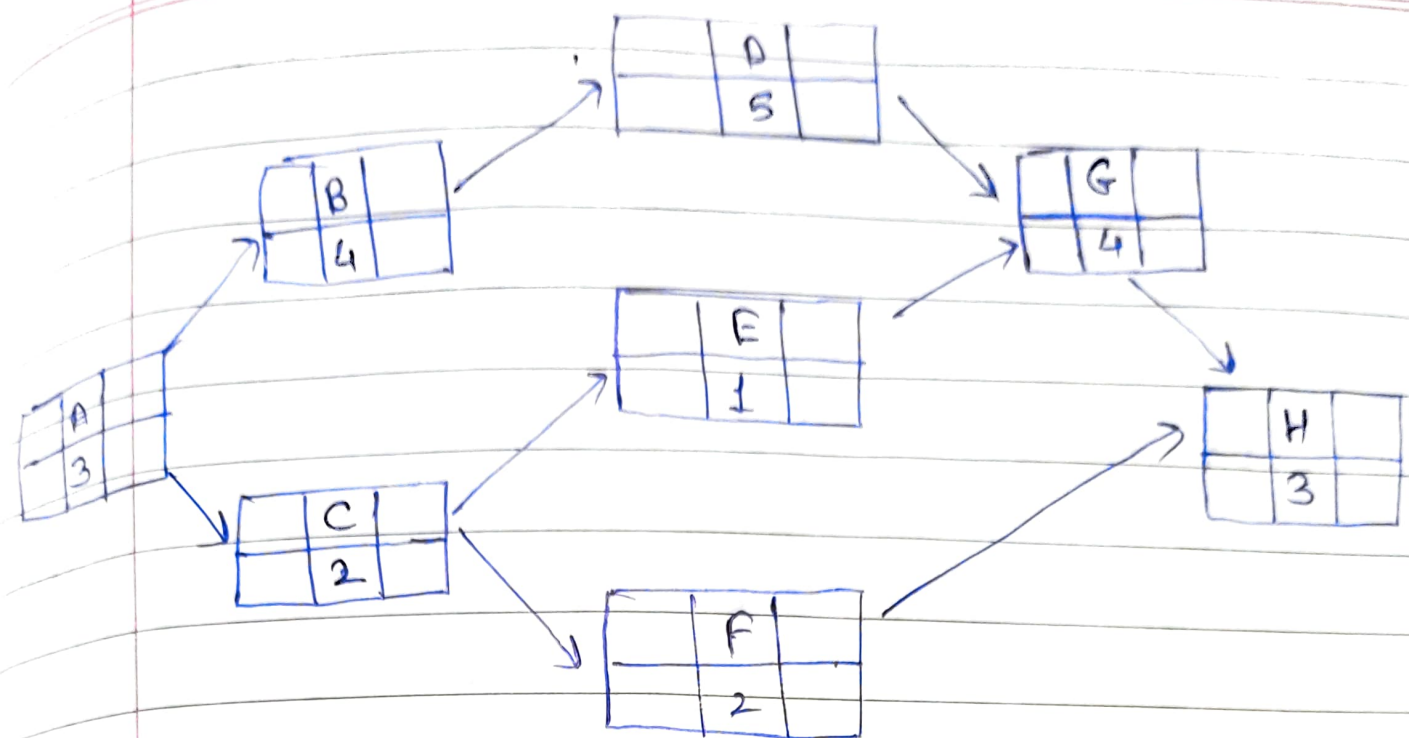
NAME: SHIVAM TAWARI

REG. NO.: 2019AAIE1117028

CO2.



Pg. no. 01  
14/07/2020



Q1.

- a. The COCOMO estimates the cost for software product development in terms of effort and schedule based on the size of the software product. It estimates the number of Man-Months (MM) for the development of software products.

Estimation of development effort:

$$\text{Organic} \Rightarrow 2.4 \times (50)^{1.05}$$

$$\Rightarrow 145.9 \approx 146 \text{ PM}$$

$$\text{Semi-detached} \Rightarrow 3.0 \times (50)^{1.12}$$

$$\Rightarrow 239.86 \text{ PM}$$

$$\Rightarrow 240 \text{ PM}$$

$$\text{Embedded} \Rightarrow 3.6 \times (50)^{1.20}$$

$$\Rightarrow 393.61 \text{ PM}$$

$$\Rightarrow 394 \text{ PM}$$

Development Time  $\Rightarrow$

$$\text{Organic} \Rightarrow 2.5 \times (146)^{0.38}$$

$$\Rightarrow 16.6 \text{ Months}$$

$$\text{Semi-detached} \Rightarrow 2.5 \times (240)^{0.35}$$

$$\Rightarrow 17 \text{ Months}$$

$$\text{Embedded} \Rightarrow 2.5 \times (394)^{0.32}$$

$$\Rightarrow 16.9 \text{ Months}$$

$$\Rightarrow 17 \text{ Months (Approx)}$$

col.

b.

Duration Week 1 Week 2 Week 3 Week 4 Week 5 Week 6

~~Activity~~

Specification

Design  
Database

Design  
GUI

Code  
Database

Code  
GUI

Integrate & Test

Activity