## UNIVERSITY OF ASIA PACIFIC

## MID SEMESTER EXAMINATION



## SPRING 2021 CSE 403

ARTIFICIAL INTELLIGENCE & EXPERT SYSTEMS

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HASAN TAHSIN RAFSAN

18101009

A1 SECTION

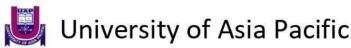
ROLL 9

4TH YEAR

1ST SEMESTER

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

12 SEPTEMBER 2021



Project / Thesis

Operating Systems

Operating Systems Lab

Software Development

ICTLaw, Policy and Ethics

Topics of Current Interest

## **Admit Card**

Mid-Term Examination of Spring, 2021

Financial Clearance

PAID

Registration No: 18101009

SI.NO.

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: Hasan Tahsin Rafsan Student Name

**CSE 400** 

**CSE 401** 

CSF 403

**CSE 404** 

**CSE 405** 

**CSE 406** 

CSE 407

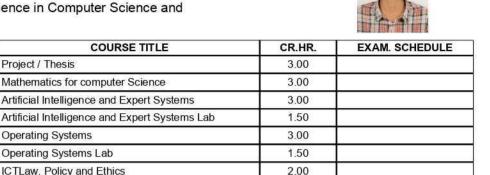
**CSE 410** 

**CSE 427** 

Program : Bachelor of Science in Computer Science and

Engineering

COURSE CODE



**Total Credit:** 21.50

1.50

3.00

- 1. Examinees are not allowed to enter the examination hall after 30 minutes of commencement of examination for mid semester examinations and 60 minutes for semester final examinations.
- 2. No examinees shall be allowed to submit their answer scripts before 50% of the allocated time of examination has elapsed.
- 3. No examinees would be allowed to go to washroom within the first 60 minutes of final examinations.
- 4. No student will be allowed to carry any books, bags, extra paper or cellular phone or objectionable items/incriminating paper in the examination hall. Violators will be subjects to disciplinary action.

This is a system generated Admit Card. No signature is required.

Admit Card Generation Time: 31-Aug-2021 11:30 AM

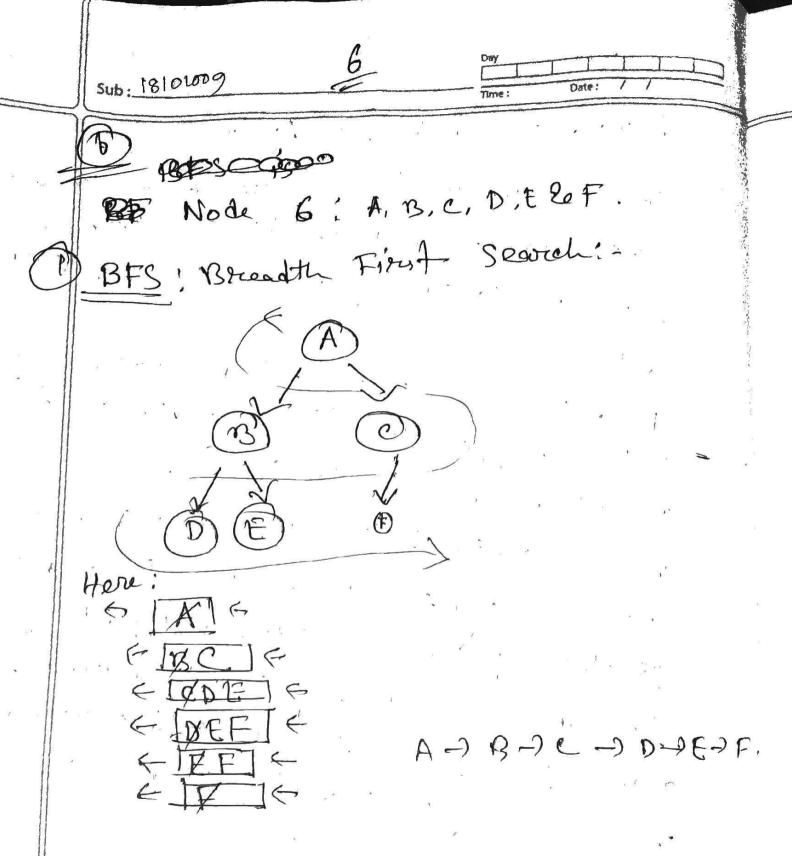
Day
Time: Date: / Sub: 18701009 Ans: 1 The twing test, proposed by Alon Turing wan designed to provide a satisfactory operational Abbination ob interligence. A computer passes the test it a human inderviogationatters poring some written questions, can't tell whither response come broom a person are computer. An intelligent modline (ex borr ex: computer) should process the bollowing capabilities to pars the twing rest. Matwal image processing: to enable it to communicate asuccersbully in English. 1. knowledge représentation: to store volut it knows or hears. m. outomated reasoning: - to use the stored information to answer quertingle to drow new conculation, adopting an new when

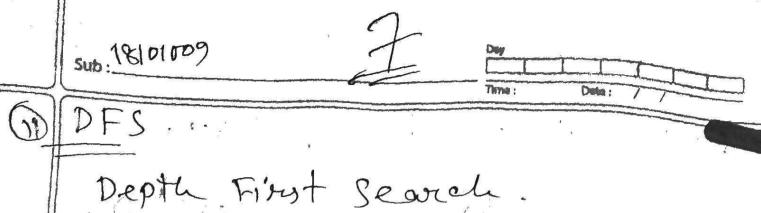
PEAS description

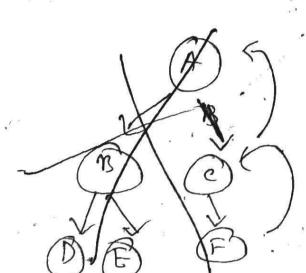
Sub: 18101009 portomorne Actuatory clean new lebot efficiency quight security Suck buttery mo op. environment; seryons boom, table camera, Chour bumpserson COOR diret ditaction obstacles. genton. Inboard wall sow

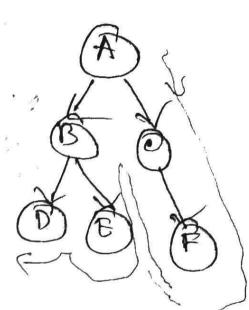
Sub: 1800009 3 Simple Robby Agent. Those over the simplest agents. These agents take decisions on the barris to the avoient porcepts le ignore the rest of the percept history. These agents only succeed in the buly Observable environment. It doesn't correider any part of percepts history during their decision le action procen It words on condition action such Which mans & maps would state to action. Ex: Room cleaner agent which only works only it those is diret in the

Sup: (8/10/20) Model based Reflect Agents It can work in a partially observable envilonment. Le treach the Simulation. A model based gigent has 2 important Model: - which is sknowledge about how tuings happen in the world. so, it's called model - based agent. Internal state: " It is a representation of the convert state based on the model per they perbonn actions. Spacking the adjent steete tegures, intomnetin about :- how the world envolver. how the aponts action abbrect the world.





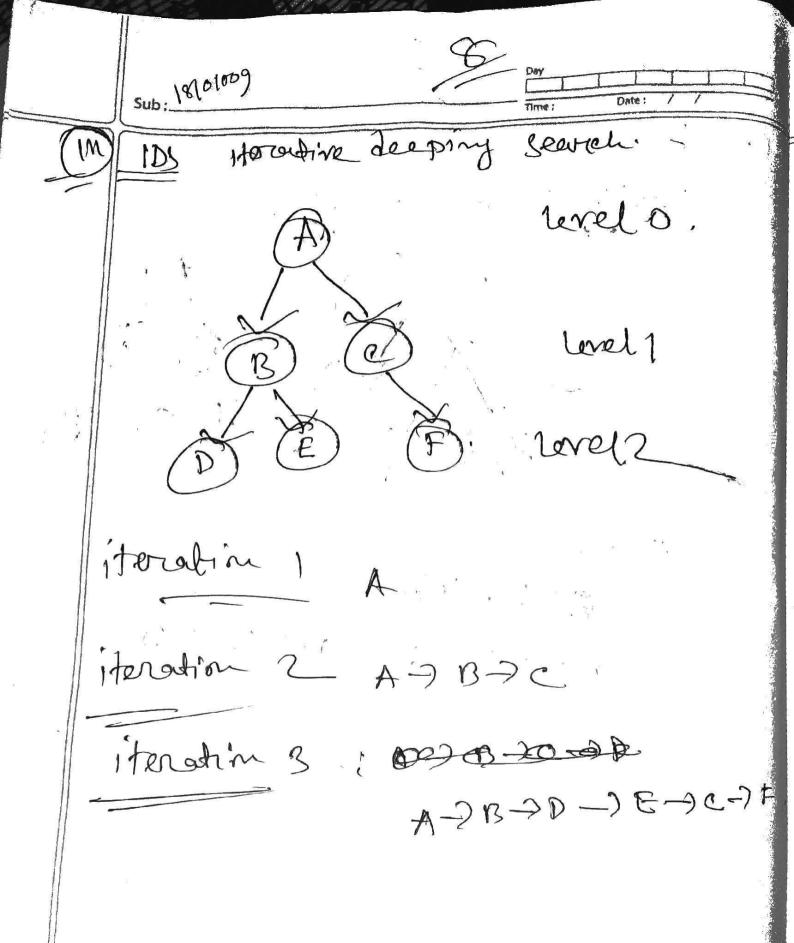




Hera.

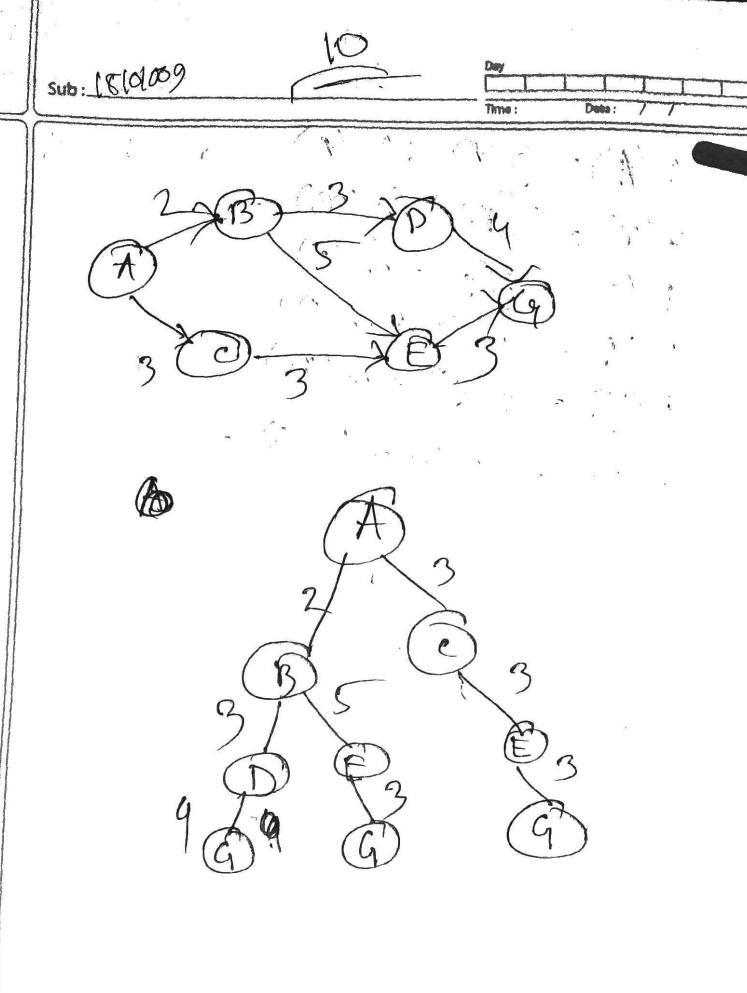
ACC BED

 $A \rightarrow C \rightarrow F \rightarrow B \rightarrow E \rightarrow D$ 



Sub: 18/01009 Ar. 2 A = 18/6/009 last 2 dig = 89 h(A) = 09764+2=3 hl32= 09 45+3 h (0)= 09.766+1 n (D)= 09 7.5+2=6 h(E)= 097,4+1

en(a) = 0



sub: 18/0/009 P(A)=3(A)+h(A)=0+3=3 F(B)=8(B)+h(B)=217=9 F(c) = 9(0) + h(e)=3+4=7(A-) F(D) = 920) + Q(D) = 3 + 6 = 9 F(S) = 3(50) + h(E)=5 + 2=70 F(9) = 8(4) + h(4) = 9 +0 = 9 F(B) = 3(b) th(E) = 3 th = (

sub: 1810(009) A-) B= 2 A+13+10=2+3=5 1+2 A-73-70-94=2+3+4=9 A7C=3 A-1C-> E = 3+3=6 it 2 A7C7E74=3+3+3=9 its A >B-)E=2+5=7 A)B) E) 4= 2+5+3 = 10 50, showtest peth will be 9 ether A-13-71)-14 0% ACE4 But, After itez, A-)B-)D=5 where AJOJE is 6. 50, the path will be A +377-79. costwill beg sub: 7810100) be earse abter iteration ABD < ACE. So, A-) B-70-74