#### nternational University Department of CSE Daffodil In

Semester: Spring 2019 Title: Computer Architecture and Organization Course Code: CSE 322 Midterm Examination

Teachers: DAY All Course

Full Marks: 25 Time: 1.5 Hours

## Answer any FIVE of the following questions

Scheduling. They notice a topic named Now try to help them operating system with example. Scheduling. of CPU Azad and Rafiq are discussing about CPU understand starvation and aging in part В 15 Aging Starvation and

Consider the following set of processes with the length of the CPU burst time given

5.0

3

(Preemptive) and Calculate Time 26.0 26.0 10.0 2.0 5.0 0.0 3.0 Arrival 2 9 2 5 8 4 Burst Process P5 P4 P2 P1 in millisecond. P7 P3 P6

raw Gantt chart for the above processes using individual processes turnaround time

Describe Process State with appropriate diagram.

Describe different scheduling criteria of CPU scheduling algorithms.



# Daffodil International University

Department of Computer Science and Engineering Faculty of Science & Information Technology

Mid Term Examination

Course Code: CSE 323

Semester: Spring- 2019

Course Title: Operating System

(Answer all of the following questions. Figures in the right-hand margin indicate full Full Marks: 25 Time: 1.5 hours Section: All

marks.]

1.0

3.0

to execute six processes. Draw the gantt chart and In-a particular time CPU is trying

0.9

scenario using and time way and response time from following executing in a preemptive round Robin algorithm. Where process find out the average waiting time

quantum is:2 (TQ=2)

		11:	D.:
Process	Arrival Time	Burst 11me	Priority
P1	2	7	5
P2	3	4	4
P3	7	2	3
P4	11	5	9
p5	12	~	2
P6	15	6	

and make a boat,' said the tree.

Then you can sail away...
and be happy.'
And so the boy cut down her trunk
and made a boat and sailed away.
And the tree was happy
... but not really.

And after a long time
the boy came back again.

I am sorry, Boy,'
said the tree,' but I have nothing
left to give you My apples are gone.'
My teeth are too weak
for apples,' said the boy.

'My branches are gone,'
'My branches are gone,'
said the tree. ' You
cannot swing on them - '
I am too old to swing

'well, an old stump is good for sitting and Come, Boy, sit down. Sit down and rest.' something. 'I don't need very much now,' said the the boy. 'Well,' said the tree, straightening herself up as much as she could, 'just a quiet place to sit and rest. give you 'I am too tired to climb' said 'said the 'I am sorry,' sighed the tree. on branches,' said the boy. And the tree was happy. but I have nothing left. just an old stump. 'I wish that I could 'You cannot climb 'My trunk is gone, And the boy did. I am very tired.

- Please, explain poem? in the mentioned is. which 'tree' the Jo role the plays In your real life who with examples.
- a story based on the theme of the poem above. (Not more than 150 words) Please, prepare

# Answer from the following questions (Any One)

- turned they before my problems solved ecanse 9 life, in any crisis never encountered Amit Kalantri
- problem? Please, explain with an example. solve How will you use your skills to

-Jalal-al-Din Rumi

Ask all from yourself."

"Everything in the universe is within you

- personality, it is the "true self." Many refer to the inner self as the soul, particularly in spiritual contexts. In contrast to the outer self, the inner self is about what can't be seen: feelings, intuition walness to the inner self is about what can't be seen: feelings, intuition walness to the inner self is about what can't be seen: feelings, intuition walness to the inner self is about what can't be seen: and and labels; defined by It is closely linked to a person's values, beliefs, of authenticity not associated with external identities internal identity - one that is distinct from identities. It is closely linked to a person's values beliefe be seen: feelings, intuition, values, beliefs, desire, and purpose. thoughts, emotions, fantasies, spirituality, The inner self is an individual's personal, motivations. The term also implies a level social forces and relationships external,
- If yes, please describe your Inner Self. If no, please describe, Do you know yourself properly? which are the obstacles, you are

#### University ernational Daffodil

Department of Computer Science and Engineering Faculty of Science and Information Technology

Mid-term Examination

Semester: Spring 2019 Course Code: GED 321 Course Title: Art of Living Course Code: GED. Course Facilitator: MSS, SMU, AS, EUR, SS, KI, RTM, MP Total Marks: 20

### Exam Duration: 1 Hour 30 Minutes

#### = 14 Marks) 2 Section

#### The Giving Tree

-Shel Silverstein

and she loved a little boy. Once there was a tree....

And everyday the boy would come

and he would gather her leaves and make them into crowns

and play king of the forest.

He would climb up her trunk

and swing from her branches eat apples. And they would play hide-and-go-seek.

And when he was tired,

he would sleep in her shade.

And the boy loved the tree....

very much.

And the tree was happy.

But time went by.

And the boy grew older.

And the tree was often alone.

Then one day the boy came to the tree

and the tree said, 'Come, Boy, come and climb up my trunk and swing from my

branches and eat apples and play in my

"I am too big to climb and play' said shade and be happy.'

the boy.

I want to buy things and have fun.

I'm sorry,' said the tree, 'but I want some money?"

have no money.

I have only leaves and apples.

the city. Then you will have money and Take my apples, Boy, and sell them in

you will be happy.'

And so the boy climbed up the

tree and gathered her apples

answer the following questions

and

Read the poem

and carried them away.

And the tree was happy.

But the boy stayed away for a long time....

and the tree was sad.

And then one day the boy came back

and the tree shook with joy

and she said, 'Come, Boy, climb up my trunk and swing from my branches and be happy.'

'I am too busy to climb trees,' said the boy.

'I want a house to keep me warm,' he said. 'I want a wife and I want children,

and so I need a house. Can you give me a house?"

'I have no house,' said the tree 'The forest is my house,

but you may cut off

my branches and build a

house. Then you will be happy.'

And so the boy cut off her branches

and carried them away

And the tree was happy.

to build his house.

But the boy stayed away for a long time.

And when he came back,

she could hardly speak. the tree was so happy

'Come, Boy,' she whispered

'come and play.'

'I am too old and sad to play,'

said the boy.

'I want a boat that will

take me far away from here. Can you give me a boat?"

'Cut down my trunk



## niversi ntel

Department of Computer Science and Engineering Midterm Examination, Semester: Spring 2019 Faculty of Science & Information Technology

Course Code: CSE 321 (DAY), Course Title: System Analysis and Design

Section: All, Course Teachers: All

You must answer parts of a question sequentially. The figure in square brace at the right side of a question Marks: If an information system were to be designed for an online ecommerce website, what years of experience on the job, and so forth) about the staff of 10 employees and you have a) If you were to interview a customer to obtain biographical information (age, education, start designing a) Consider an Automobile and a Hospital as two systems. Identify the following as an c) Discuss the concept of MIS and DSS. How are they related and how do they differ? iv. Doctors viii. Tires a) What is system development life cycle? How does it relate to system analysis? b) What is technical feasibility, operational feasibility and economic feasibility? c) What additional information would you like to gather a second interview? xi. A Patient who died. by Differentiate between system design and analysis. Is it possible to would be the strategic, tactical, statutory and operational information? indicates the marks allocated to the questions. 3 of the following questions. iii. Batteries vií. Motions d) A system analyst should be an "Analytical Mind" explain it. Structured interviews using open-ended questions. Which of the following methods would you use and why? of five minutes each. Structured interview using closed questions. 6) Distinguish between physical and abstract system. x. Cured Patients input and/or output elements for each system. ii. Information only one hour to acquire the information. Self-administered questions. Answer any Unstructured interviews Drivers performance yi. without analysis? How? i. X-ray Machine ix. Drugs Time: 1.5 hours IV. Ξij. 3

[1.3]

[2]

[3]

[2]

[2.33]

[3]

[2]

d) You are promised 8, 00000/- BDT in 10 years' time. What is its Present Value at an

interest rate of 6%?

[2.33]

\* anter son mation comes code. NI

The 10 activities A to L which make up a project are subject to the following precedence relations.

Time(days)	10	6	8	11	8	12	II	10	6	15
Immediate Predecessor				C	В,Д	A,E	В,Д	B,D	2	H,I
Activity	A	В	C	D	E	F	G	H	The state of the s	J

a) Draw the Gantt/Bar Chart for the project.

b) Construct network diagram for the project.

c) Determine the critical path.

d) Calculate the float time of each activity.

[2.0] [3.0] [2.0] [1.34]