

#### **European University of Bangladesh**

2/4 Gabtoli, Mirpur, Dhaka 1216.

#### **Admit Card**



Name of Exam : Final Exam Summer 2021

Semester : Summer 2021

Student's Name : Shemol Chandra Roy

Student's ID : 210122009 Batch : 18th Batch

Program : BSc in Computer Science & Engineering (Diploma)

	Courses in which to appear at:							
SL	Course Title	Course Code	Credit					
1	Discrete Mathematics [A]	CSE-123	3					
2	Introduction to Electrical Engineering [A]	EEE-101	3					
3	Physics [A]	PHY-101	3					
4	Introduction to Electrical Engineering Sessional [A]	EEE-102	1.5					
5	Mathematics-II (Ordinary and Partial Differential Equations) [A]	MTH-103	3					
6	Physics Sessional [A]	PHY-102	1.5					

S/he is allowed to sit for the above mentioned exam.

[Digitally Signed]

Controller of Examinations (EUB)

#### Instructions for Examinees:

- 1. Examinee should come to the examination hall with the Admit Card.
- 2. No examinee will be allowed to sit in the examination hall outside the seat plan.
- 3. No bag or book will be allowed in the examination hall.
- 4. Cell Phone must be kept switched off in the examination hall.
- 5. No examinee will be allowed to enter the examination hall after expiry of half an hour.
- 6. No examinee will be allowed to leave the exam hall within the first half an hour after the examination begins.
- 7. Any examinee adopting unfair means will be brought under disciplinary action including expulsion.
- 8. Any kind of misbehavior will be considered as a serious offence under the rules of the University.

Developed By: Pipilika Soft Printed: 12/08/2021 Coordinated By: ICT Division, EUB

### European University of Banglackste 2/4 Grab-toli, Mirpur, Dhaka-1216

#### Exam Summer - 2021

: Stremol Chandra Roy Name

: 210 122000 ID

Program

BSC in computer science and Engline reening (Exe ! Discreed Mathematics Course Title

Course code : CSE-123

Section

Semmester and year; and year

20/08/2021 Dark

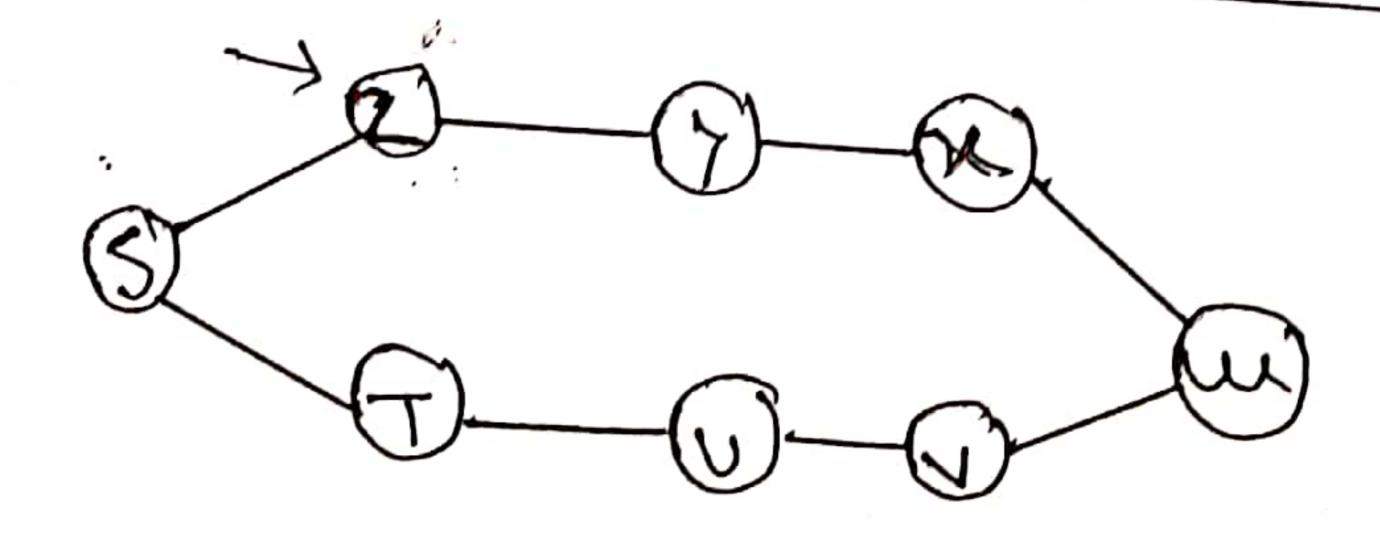
Total page no 105

## Ans to the question no: 1(a)

degree vertex and even lodd.

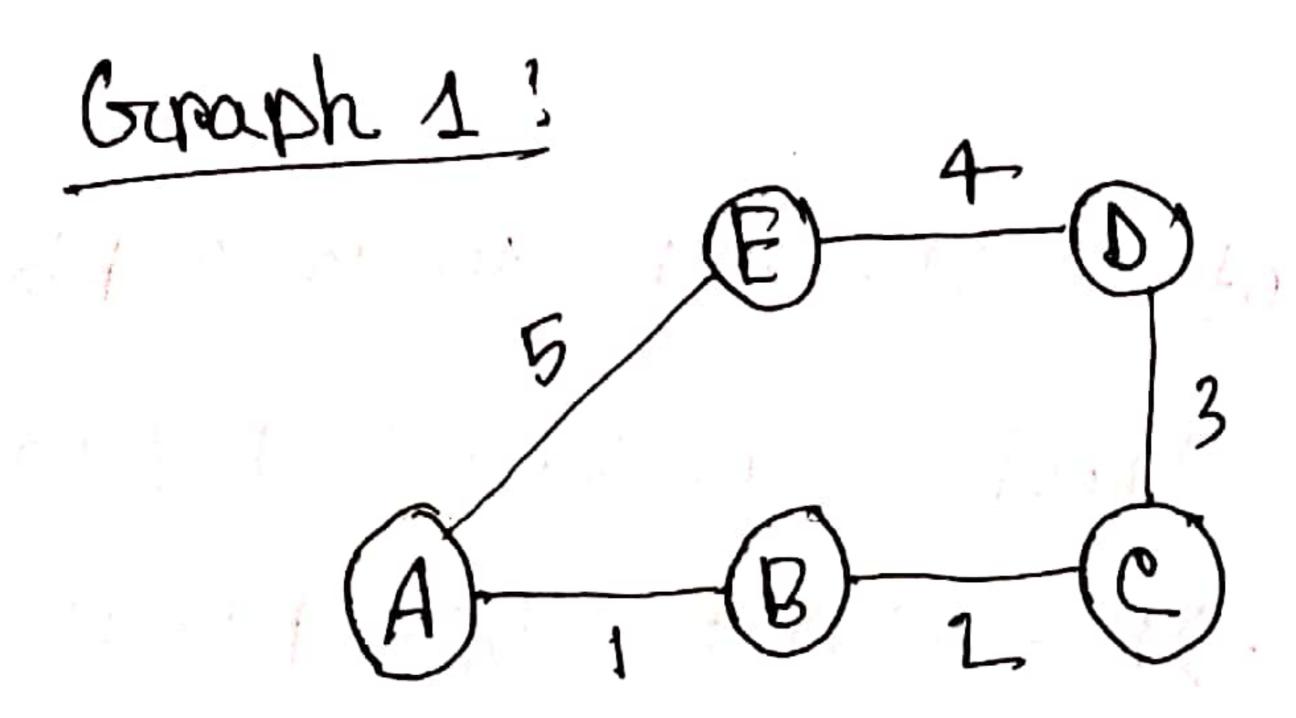
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P	3	odd
5	4	Even
	2	Even
· · ·	3 :	000
	5	099
- UL	4-	Even
•	3	odd
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Ans to the question mo: 1(b)



· DFS; Z,S,T,U,V,W,X,Y,

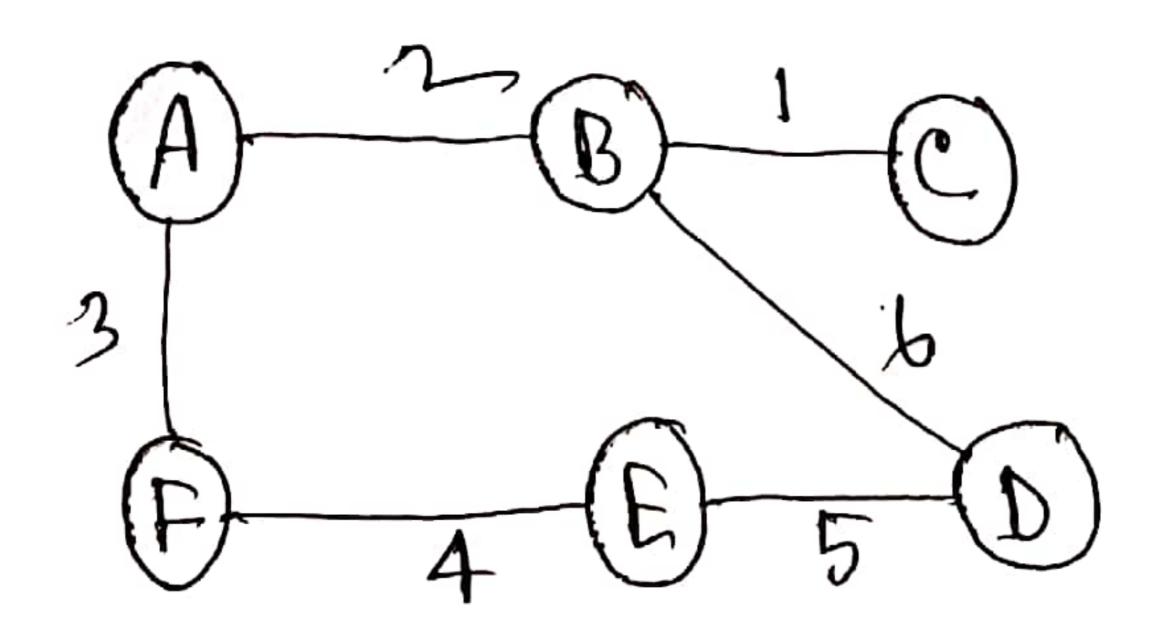
### Ans to the question no: 3 (a)



Thus graph is Eulen graph

Eulen graph is. ABCDE

#### Buraph 2:



This graph is not Euler graph

or CBAFED

Ans to the question 200122000

Ans to the question no: 3(b)

12, 12, 3,4.67,5,1625 Inorder: L - - -> Root - -> R 3,12,6,4,7,10,11,5,25 postonder! L -- ) k --> Root 3, 6, 7, 4, 12, 11, 8, 2, 5.1

1711

# Ans to the question no: 4(a)

AU(B-A) = AUB

A	B	B-A	AULB-A)	AUB
0	0	, O.	O	0
0	1	1	1	
1	0	0	1	1
1	1	0	1	
	-1			

## Ans to the question no: 4(b)-i

breven that

In (2n = 3n)

me know,

set of integers number [-1,-1-2-01,2-a]

m=-1

1.2n=3n

一)2(一1)=3(一1)

=) -2=-3

when

N=O

1. 2n=3n

=) 2.0 = 3.0

=) 0 =0

when

1. n=1

2n=3n

=) 2.1=3.1

= 2 = 3.

when.

n=-1, -2,2-3. n=0, 0=0 which is true so, In(2n=3n) is true where the domain consists of all integers.

### Ans to the question no: 4(b)-11

briven that. Helv2+271) we know

Set of Integers number = \2-2----- 1,-2,0,1,2-d

when, 
$$n=-1$$
 321 This is frue  $n=0$   $n=1$   $n=1$   $n=1$   $n=1$   $n=1$ 

so, rulu2+2,21) is true when the domain consists of all integers.