



AMERICAN INTERNATIONAL UNIVERSITY-BANGLADESH

Faculty of Science and Information Technology

Department of Computer Science

FINAL-TERM Assignment, Fall 2019-20

OBE Evaluation

Course: Algorithm; Section: E,I

General Instruction: *Read Very Carefully first*

1. Final-term Assignment contains **Two OBE evaluations (CO3, CO4)**
2. At First **Print out** the Assignment **PAGE** in separate two Pages. Also Print this Cover page.
3. Answer the questions in **hand-written** format on the printed Page.
4. Use maximum **TWO page per Question**. No more additional page is allowed.
5. Do not Copy. Write the assignment by your own. Otherwise penalty is total Zero(0) in assignment.
6. Write Name, ID, Course, Section, **Serial Number **** on Cover page properly.

Name: Shnigdha Paul	ID: 19-39319-1
Course: Algorithms	Section: I
Faculty Name: Asma Fariha	Serial No: 37
Signature:	

<i>For Faculty Use Only</i>	
Assignment	
Total Marks:	Marks Obtained:
Viva	
Total Marks:	Marks Obtained:
Comments:	

AMERICAN INTERNATIONAL UNIVERSITY-BANGLADESH (AIUB)

Fall 2019-20, CSC 2211: Algorithms, Assignment (OBE) No.: 01

Name: Shnigdha Paul	ID: 19-39319-1
Signature	Section:

CO3: Break down some complex realistic problems into modular problems and their solutions.

Analysis Skill:	Problems mapping skill:	Modular Design:	Subcomponents solutions:	<i>Total marks:</i>
Solutions Merging:	Efficiency comparisons:	Justification:	Discovery of Knowledge:	

Suppose you have a bag capacity of 8 kg. You have some products with price(in thousands) & weight given below

Item	Weight	Price
1. Tab Phone	4	9
2. Camera	3	8
3. Laptop	5	10
4. Flash Light	6	9
5. Battery	2	3

Now select products & find out the most benefit from those & make a list of selected products.

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Fall 2019-20, CSC 2211: Algorithms, Assignment (OBE) No.: 02

Name: Shnigdha Paul	ID: 19-39319-1
Signature	Section: I

CO4: Justify the usage of the algorithms and their data structures to solve some complex realistic problems along with complexity analysis.

Analysis Skill:	Problems mapping skill:	Modular Design:	Subcomponents solutions:	<i>Total marks:</i>
Solutions Merging:	Efficiency comparisons:	Justification:	Discovery of Knowledge:	

There are some places given below with name & distance(km) between

Adabar->Shyamoli= 4 Shayamoli->Farmgate=8 Bosila->Adabor=8
Mohakhali->Farmgate=6 Bosila->Dhanmondi=6 Norda->Khilgao=10
Khilgao-> Mohakhali= 11 Gopibag->Bosila = 17 Dhanmondi->Gopibag= 12
Farmgate-> Khilgao= 5 Shamoli-> Dhanmondi= 7 Gopibag->Khilgao= 7
Dhanmondi-> Farmgate= 3

Suppose you started from Adabor & travel every place with minimum distance.