Bangladsh University of Businers
And Technology

program BSC in CSE

hemesten! helond hemesten

Course code: CSE 103

course title: Disente mathematics

Name of Student / Abdul Parvin (Retut)

ID NO 1 20211203007

Intake: 37

Plant Plate

Page - 15 - 1009

TD: 07

Intake: 37

Your a warmento the a ro: 1(b) in it a

Given statement,

The post of the beach when even it is a sunny

- (P -> T)

Convense: (9 > P)

Jo to The beach.

In renze : (TP > Ta)

- I do not go to the beach whenever it is not a sunny summen day

Contrapositive: (74 > 7p)

Aldur ID: 07 Page - 21 :1009 7 It is not a sunny summen duy whenever I do not go to the beach 11 Word worm Wood of The Johnson ac (++)(9 < 1)) : MILLAND ! and your grown of the of the standard of

t therefore is book of our of to

(h. raver (Jahr a)

(d) Anstofthe (a, non) 1 (a)

0 -

Solution (Solven) $P \longrightarrow P$ (as) $P \leftarrow P$ (Solven)

179 20 TEON Mi Dusbutt of Mi

@9 -> 7R

, mortulad

Express cach of these syngly of

In English bowtoned

foot is a chily of analth of (x) 9 x E (0

the start permit is a prompt of wash in

Darketic,

of the following of the second of the years

bolicol hour Visited WHONING HUNSIA

(D) Amitothe Q nove (b)

Given, P(n) = n nas visited Nonth Dakota

x in a student in your school ?

solution.

71 C P D

Expres each of these quentitients ons In English sentence

- a) Frp(x) -> There exists astudent in your school who has visited North Dakota,
- b) Yxp(x) > AU . Students in your have visited North Dakota School

Pani = 5000

Agrana OT

ID: 07

2) = 1 x7 Pin) -> there exists a student in your school who garhant, and the Yibited North and Dakotein soom

d) Vrenp(r) JAM Student in your Go of austraum to done endight with Sahool have not visited North Dakota.

6 17 16 17 22 18 32121 5259

Treamfolding their book to lettern person of the Change of the Constitution of the Con

Park-619

ID: 07

Am to the a no 3 (b)

two who is chairs wrong ()

menare with oximinsens the products

Bound 13 1419. 1501818 022 024

Dudy neplace caen of numbers P by

otenal nitrain bottom don syon looned

F(P) = (P+3) mod 26

6 17 16 17 22 18 32121 02501

Translating this back to letters produces
The Encrypted menane "Ger Q-RWSDVV
A-2AB DZDB

(A) & Amto, the Rino in Z(a)

4 = "Sue is a good Jin!"

modus ponens (1.2)

Hypothusis In 150 (d

modus poruros (3.4)

The conclusion in The "She will not

Get job" (Angel von tom) villoseni

themseld better man and a start of the

ON Durkin

ID:07
Intake: 37

1 6- 11 1

Am to the a no: 3 (a)

repeat,

detination why , A turetion is injective

(one-to-one).it ton antitrary ryEA
with refy then, r=y

Result: yes Charles !!

twice.

defination why: A function is not

insective (not one-to-one): it Particulare Elements on yEA such that x7 y and for)

=+(7)

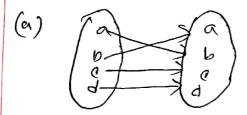
result 1 No

Intake: 37

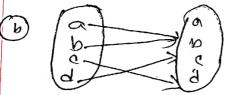
() not one-to-one because 2 repeat twice

input cannot have the same output,

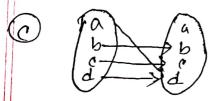
result: No



Explain, one-to-one becaus no out puts leseat



Explain: not one-to-one because b report two times,



Explain: not one-to-one because d'report two