POE: Assignme	nt01 Date20
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i) Rises. (a)	
1) Increases. (a)	
Falls. (b)	·
All the above are possible.	· (d)
10,000 individuals for X.	1000 producers for X
$Q_{dx} = \frac{1}{u} (12 - 2P_x)$	$\frac{1000 \text{ producers for } X}{Q_{SX} = \frac{1}{y} (20P_X)}$
1	· · · · · · · · · · · · · · · · · · ·
	Q5 = 1000 x Q _{5x}
$\frac{(y_D = 10000 \times 1(12-2/x))}{4}$	$Q_s = 1000 \times \frac{1}{4} (20P_x)$
() 2500(12-28)	Qs = 250 (20Px)
•	$Qs = 5000 P_X$
	Ans.
77	,,,,,
h Market Demand Schedule:	
•	000 - 5000 Px
	*
$P_{\mathbf{x}}$ Q_{0}	
1 30000-5000(1) = 25000	
2 30000 -5000(2) = 20000	
3 30000 - 5000(3) = 15000	
4 30000 - 5000(4) = 10000	
5 30000 -5000(5) = 5000	
At level-6:	
Op becomes O.	
≥ 30000 - 50∞(6) = 0	
	Falls. (b) W All the above are possible. 10,000 individuals for X. Qdx = 1 (12-2Px) Y QD = 10000 x Qdx QD = 10000 x 1 (12-2Px) Y QD = 2500 (12-2Px) QD = 30000 - 5000 Px Ans. Ans. Market Demand Schedule: from price-levels 1-5: QD = 30 Px

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Date_____20___ Market Supply schedule: Qs = 5000 Bx from supply-levels 1-5: 3 Qs 5000(1) = 5000 5000(2) = 1000 2 11 3 5000(3) = 15000 5000(4) = 2000 4 5000(5) = 25000 Price and Quantity Equilibrium P_{x} Qs Qo 1 25000 5000 10 000 20000 2 Equilibrium point 15000 3 15000 10000 20000 5000 25000 The equilibrium price is at level 3 from . which Qp = Qs = 15000 Graph: 25000 Q QD 20000 15000 Equilibrium point 10000 5000 -0 2 4 5 3

Date_____20___ 3 d. Graphically, we can observe the market demand curve and market supply curve intersect at Px = 3, which is the WE THE equilibrium point for commodity X. (QD = QS = 15000) 1/2 Mathematically: 11/1 for equilibrium point, 11:11 30 000 - 5000 Px = 5000 Px 30000 = 10000 Px $P_x = 30000/10000$ Px = 3 for Pr=3 $Q_0 = 30000 - 5000(3)$, $Q_5 = 5000(3)$ THE REAL PROPERTY. Ob = 15000 Qs = 15000 Ans. Equilibrium quantity is 15000 for equilibrium price Px = 3 11 11 VI) 10000 individuals for X 1000 produces for X $Q_{dx} = \frac{1}{1} \left(12 - 2P_x \right)^{x}$ 1 After increase Qsx = 40000 + 20000 Px Qox = 140000 -2000 Px a. Graph: Find out market demand and supply, Qs = 40000 + 20000g Qp = 140000 - 2000Px -Solve for Px: : QD = Qs 140000 - 20000 Px = 40000+ 20000Px 200000 = 40000 Px Px = 100000/40000

Px = 2.5

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23k -2001 BCS-3J == Date_____20___ 5 Find schedules holy. for levels 1-7 Px Qs Po 11:11 60000 1 120000 1111 2 80000 100000 3 10000 80000 120000 4 60000 5 140000 40000 10 20000 160000 110 Qs QD 120000 113 100000 Equilibrium point 80000 60000 :: 40000 20000 3 1.5 2.5 3.5 4.5 5.5 2 4 The morket demand curve and market supply. intersect at Px = 2.5, which is the equilibrium for commodity X

BCS-3J Date_____20___ b) New equilibrium quantity: Op = 140000 - 20000(2.5), Qs = 40000 + 20000 (2.5) 35 Do = 90000 Qs = 90000 By graph and mathematically,
new equilibrium quantity QE = 90000 (QD = QS 1.11 from (V): OE = 15000 for $P_X = 3$ subsidy = \$1 for each unit The market supply curve changes as producers are now capable to sell commodity X at a lower price. \Rightarrow Qs = $5000(P_x+1)$ $S = 5000 (R_x + 1)$ $S = 5000 + 5000 R_x$ 111 Equilibrium point changes: PD= Ps 30000 - 5000 Px = 5000+ 5000 Px 11 25000 = 10000 Px $P_{X} = 2.5$ New equilibrium quantity becomes: Qp = 30000 - 5000 (2.5) Qo = 17500 > QE = 17,500 Ans. The equilibrium quantity increases to 17,500 for decrease in equilibrium price to Px=2.5 H 田

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b) Consumer have now benefitted from subsidy as they have to pay	the 3
subsidy as they have to pay	80.5
Mes per unit.	trom
Also, quantity of X has increased 15,000 to 17,500.	- Dronn
Commodity X is now available at a	a lower price
Commodity X is now available at a	
·	7
VIII) from (v):	***
$Q\epsilon = 15000 \qquad \text{for} R=3$	
sales tax: \$2 per unit sold	S
a. To maket work were shills wowend	1. ks
a. The market supply curve shifts upward	to par wit
as at every price level, sellers require in more to supply the same quantity.	pr per wiit
more a supply are some gooding.	
⇒ Qs = 5000 (Px-2)	
$Q_s = 5000 R_x - 10000$	2
	12
Equilibrium point changes:	
$Q_D = Q_S$	
30000 - 5000 Px = 5000 Px - 10000	
40000 = 1000 Px	
Px = 4	
New equilibrium quantity becomes,	
New equilibrium quantity becomes, QE = 30000-5000(4)	
QE = 10000	
	3
Ans. The equilibrium quantity decreases to for increase in equilibrium price !	19000
for increase in equilibrium price !	x = 4
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The tax amount is fulfilled by both; consumer and producer in the following way: Consumers: previously one unit costed them \$3 but now Px = 4, hence consumers a paying \$1 more per unit. EE Producers: previously as Bx=3, they received \$3 but now (Px-2)=4-2=2, hence producers are receiving \$1 less than before. == Tax = \$2 = \$1 + \$1 ; (per unit) payed by payed by producer consumer 1.11. c) QE = 10000 Tax = \$2/per unit 11 Total amount of $= 10000 \times 2$ tax collected by government \$ 20000