

THE HONG KONG POLYTECHNIC UNIVERSITY
HONG KONG COMMUNITY COLLEGE

Subject Title : Economic and Social Statistics

Subject Code : CCN2266

Session : Semester Two, 2017/18

Numerical Answers

Question 2

(a)

Day	Price	3-day MA
1	54	
2	60	57
3	57	61
4	66	62
5	63	

(b)

Day	Price	4-day MA forecast
1	54	
2	60	
3	57	
4	66	
5	63	59.25

(c) 110

(d) 56.68

Question 3

(a) $\hat{y} = 97 + 18.4t$

(b)

Month	y	Naïve forecast	error	Least square forecast	error
January	107				
February	151	107	44	133.8	17.2
March	143	151	-8	152.2	-9.2
April	171	143	28	170.6	0.4

(c) 0.37

Question 4

(a) 160

Question 5

(a)(i) 66.67

(a)(ii) 140

(b) $m = 3.2$

Question 6

- (b) 3307
- (c) 27.89%

Question 7

- (a) 113.25
- (b) 122.48

Question 8

- (a) $0.25 + 0.5p$
- (b) 0.78
- (c) 0.0092

Question 9

- (a) 39
- (b) 29.49%
- (c)(ii) $j = 0.2$
 $k = 5$

Question 10

- (c) 54
- (d) 43
- (e) 0.304