فيرست فصل صيفي 2015

Mark with an X the symbol that represents the correct answer. Each question is worth 1.5 points.

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15	Q16	Q17
*A	а	X	а	а	а	а	a	a	Lª	а	a	а	Là	a	а	X
19	b	b	b	b	b	b	b	b	þ	b	X	b	b	b	b	b
6	С	С	×	С	С	С	×	С	c	С	С	ď	Ċ	С	1º	С
d	X	d	d	d	d	d	d	d	d	X	d	d	d	d	d	d
е	e	е	е	8	е	×	е	×	е	е	е	е	е	R	е	е



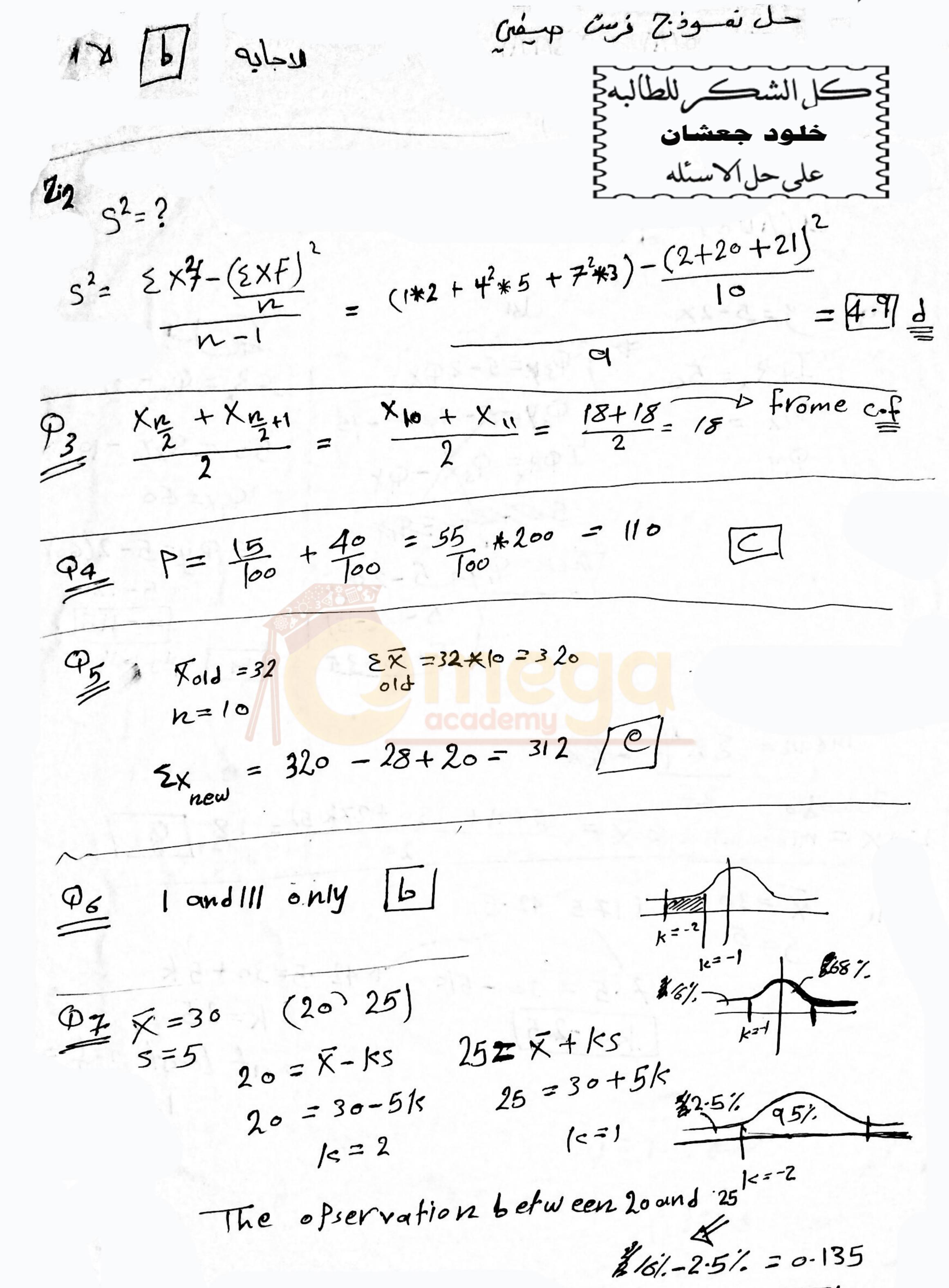
	f the above				s a continu	ous rand	om variable.
sample o	lata of 10	bservatio	ons is as	follows			
Class	0 - 2	3 - 5	6 - 8				
requency		5	3				
he varian	ce S2 of	this samp	le is				
7.8		8.3		c) 6.2	d)	4.9	e) 5.7
The erodes	of alas	1+ 20		C-11			
Class	of a samp				ow .		
		14 - 22		1			
requency		10	5				
1) 18	n of these	gradesias 20		c) 19	4)	21	e) 17
, 10		20		c) 19	u)	21	c) 17
The grades	of a samp	le of 200	student	s are as fol	low		
Class		0 - 5		6 - 11	12	- 17	18 - 23
Relative fr		0.15		p = 0.4	0.3	5	0.10
	er of stude						
a) 80	b)	100		c) 110	d)	90	e) 130

5)	A sample data o	of 10 n	umbers has me	an 32	2. If one numbe	r in	this sample	was ch	anged from 28 to 20, then the
	a) 29.8	b)	30.8		30		30.2		31.2
5)	Which of the fo I. Quantitative v II. If a sample d III. If a sample (a) all of them	ariable ata is s data is	es are discrete kewed to the skewed to the	or co left, t right	ontinuous. hen its mean is t then more tha	grean 50	ater than its		
)	A bell shaped sa sample that are	ample	data has mean	30 a	nd standard de	d)	II only	e)	I only on of observations in this
	a) 0.68	b)	0.34	c)	0.475	d)	0.270	e)	0.135
)	Let A, B be ev	ents su	ich that P(A)	= 0.4	and $P(A \cap \overline{B})$	= 0	.2. Then PC	$\overline{A} \cup \overline{B}$	equals
N.	a) 1	b)			0.8		0.9		0.7
-	Class 5 - Frequency 5 The mean of the		14 - 22 23 - 10 5 des is	31					
	a) 17	-	19	c)	20	d)	16	e) 18

10)	Let Y = 5 -	2X. If the	interquar	tile range o	of X is 50	and the fi	rst quart	ile of X is	0, then the	e first quartile of Y		
77	is											
	a) -115	b)	-15	c)	60	d)	10	e)	-60			
11)	A sample da between 17.				deviation	5. The pe	rcentage	of observa	tions in th	is sample that are		
	a) 75%	b)	68%	c)	99%	d)	84%	e)	95%			
12)	A sample data is as follows											
	Class	5-9	10 - 14	15 - 19								
	Frequency	5	10	15								
	The mode of this sample, is											
	a) 10	b)	17	c)	12	d)	7	e)	15			
13)	In how mar together?	ny ways ca	in the let	ters of the	word ACT	TIVE be a	rranged	if the lette	ers C and I	E must NOT be		
	a) 96	b)	120	c)	720	d)	480	e)	240			



14)	The third quartile	Q3	of the nun	nbers 36,	42, 18, 3	3, 22, 22,	25, 29, 30), 31, 19, 2	24 is		
	a) 32	b)	29		31		33		30		
15)	Five different typ snack tray is to co apple must be ser	ontair	n two fruit	six differences and three	ent types ee vegetal	of vegetal bles. How	les\are av many dif	vailable fo ferent sna	r a healthy ck trays c	y snack tray. The an be made if an	
	a) 40	b)	80	c)	100	d)	60	K)	120		
16)	A box contains 2 probability that n						e random	ly drawn	without re	placement. The	
	a) 0.3		0.6		0.4		0.2	e)	0.5		
17)	A sample data of from 8.10, the					iance S ² =	16. If or	ne number	in this sa	mple was change	i
	a) 1620	b)	1860	c)	1540	d)	1730	e)	1350		



$$P(A \cap R) = P(A) - P(B \cap A)$$

$$0.2 = 0.4 - P(A \cap B)$$

$$P(A \cap R) = 0.2$$

$$P(A \cap R) = P(A \cap B) = 1 - 0.2 = 0.8$$

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18, 19, 22, 24, 25, 29, 30, 31, 33, 36, 46
9 - Aplind 4

33 []

95
5 truit
(2)
academy

2 vegetables

2 1
2 1
3!
= $\frac{6 \times 5 \times 4 \times 3!}{3!} = 120$

$$S^{2} = \left(\frac{\sum X^{2} - \sum X^{2}}{n-1}\right)$$
 old

$$(16)(9) = \sum_{i=1}^{2} x_{old}^{2} - 1440 \implies \sum_{i=1}^{2} x_{old}^{2} = 1584$$

$$\sum_{i=1}^{2} x_{old}^{2} - 1240 \implies \sum_{i=1}^{2} x_{old}^{2} = 1620$$

[01]