Students' Performance at a Glance:

A handy matrix to summarise students' choices in a problem set with tens of MCQs - A useful tool for an effective tutorial class of over 200

YAM Kwan Mei[1] and CHEUNG Siu Ling Eva[2]

[1]School of Life Sciences, The Chinese University of Hong Kong

[2]Information Technology Services Centre, The Chinese University of Hong Kong

Teaching and Learning Innovation Expo 2012, The Chinese University of Hong Kong (13th Dec, 2012)

Students' Performance at a Glance:

A handy matrix to summarise students' choices in a problem set with tens of MCQs - **A useful tool** for an effective tutorial class of over 200

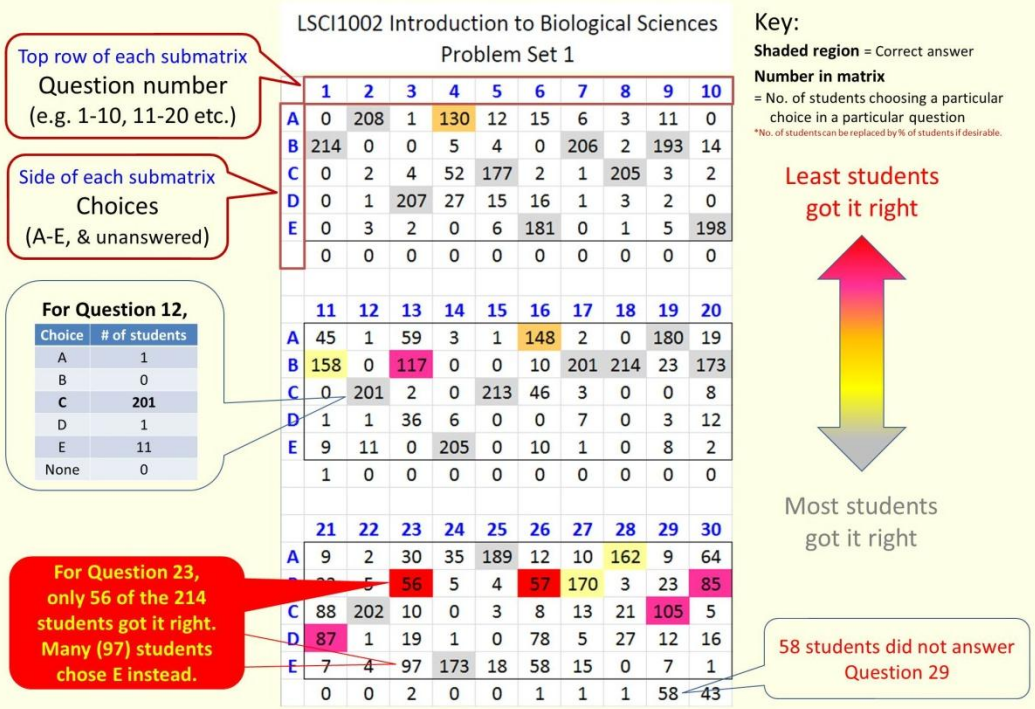
YAM Kwan Mei[1] and **CHEUNG Siu Ling Eva**[2]

[1]School of Life Sciences, The Chinese University of Hong Kong

[2]Information Technology Services Centre, The Chinese University of Hong Kong

Problems sets with multiple choice questions (MCQs) and short-answer questions are often given to students as assignments to check their own progress. After students have submitted their answers, tutorials are often arranged to address students' questions. Due to different constraints, some tutorials need to be conducted with a large class within normal class hours. However, some students are often too shy to ask questions, while some others are too eager to do so. To avoid the class being dominated by a few individuals and to utilise the limited tutorial time more effectively, a matrix has been developed to summarise students' choices of any problem set with tens of multiple choice questions answered through the CU elearning system (Blackboard Learn). **Using the matrix, teachers and students can see with ease and objectivity where the problematic questions lie** and **discussions can be focused on those first**.

During the **talk** (**T11, 14:45-15:15, LSK202**), I will demonstrate how to use the CU elearning system to generate statistics for feeding into the matrix and how I use the matrix to drive effective discussions during my tutorials.



LSCI1002 Introduction to Biological Sciences
Problem Set 1

	1	2	3	4	5	6	7	8	9	10
A	0	208	1	130	12	15	6	3	11	0
B	214	0	0	5	4	0	206	2	193	14
C	0	2	4	52	177	2	1	205	3	2
D	0	1	207	27	15	16	1	3	2	0
E	0	3	2	0	6	181	0	1	5	198
	0	0	0	0	0	0	0	0	0	0

	11	12	13	14	15	16	17	18	19	20
A	45	1	59	3	1	148	2	0	180	19
B	158	0	117	0	0	10	201	214	23	173
C	0	201	2	0	213	46	3	0	0	8
D	1	1	36	6	0	0	7	0	3	12
E	9	11	0	205	0	10	1	0	8	2
	1	0	0	0	0	0	0	0	0	0

	21	22	23	24	25	26	27	28	29	30
A	9	2	30	35	189	12	10	162	9	64
B	[illegible]	5	56	5	4	57	170	3	23	85
C	88	202	10	0	3	8	13	21	105	5
D	87	1	19	1	0	78	5	27	12	16
E	7	4	97	173	18	58	15	0	7	1
	0	0	2	0	0	1	1	1	58	43

A typical matrix showing results of 30 MCQs from 214 students

Students' Performance at a Glance:

A handy matrix to summarise students' choices in a problem set with tens of MCQs - **A useful tool** for an effective tutorial class of over 200

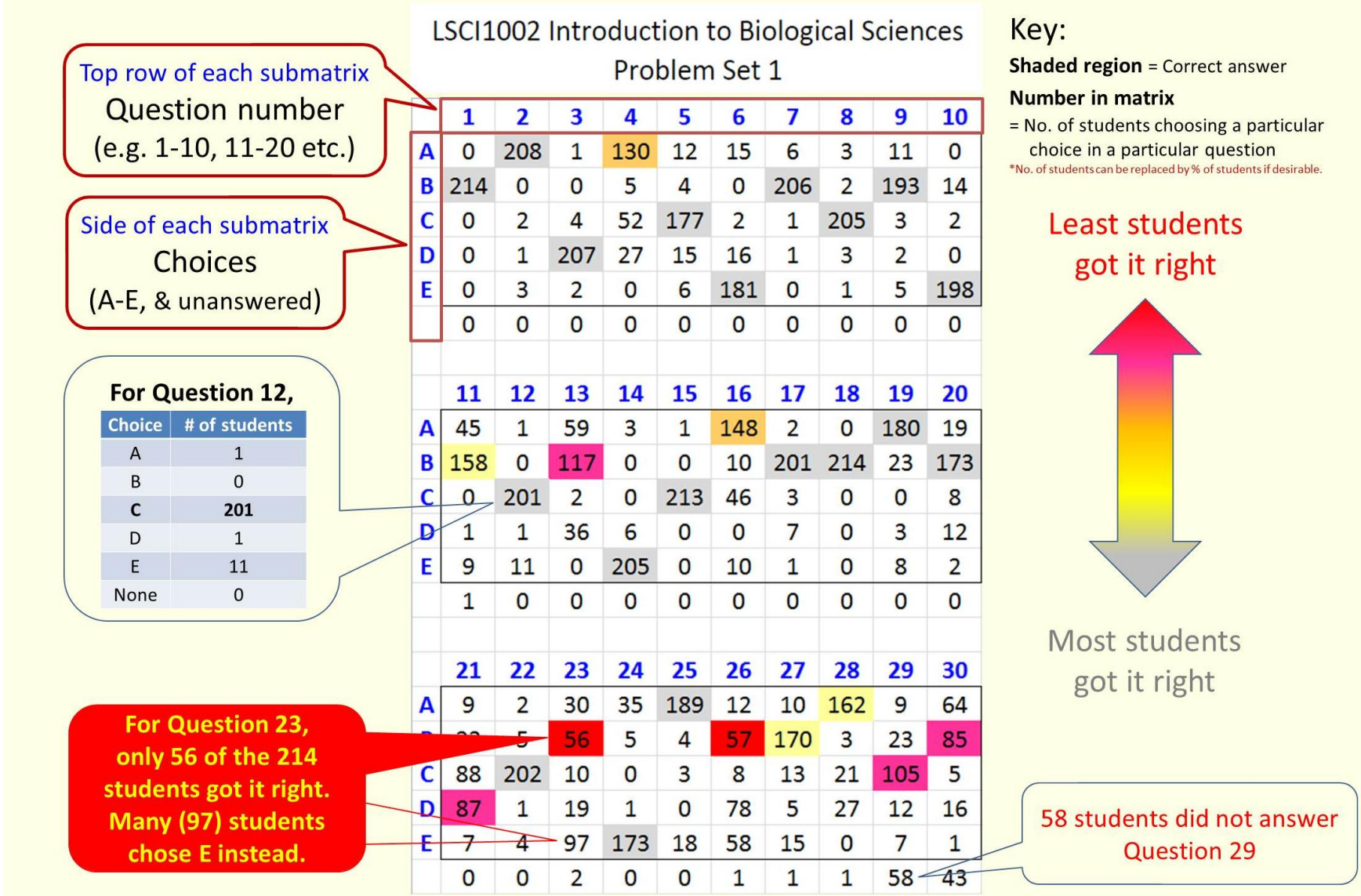
YAM Kwan Mei[1] and **CHEUNG Siu Ling Eva**[2]

[1]School of Life Sciences, The Chinese University of Hong Kong

[2]Information Technology Services Centre, The Chinese University of Hong Kong

Problems sets with multiple choice questions (MCQs) and short-answer questions are often given to students as assignments to check their own progress. After students have submitted their answers, tutorials are often arranged to address students' questions. Due to different constraints, some tutorials need to be conducted with a large class within normal class hours. However, some students are often too shy to ask questions, while some others are too eager to do so. To avoid the class being dominated by a few individuals and to utilise the limited tutorial time more effectively, a matrix has been developed to summarise students' choices of any problem set with tens of multiple choice questions answered through the CU elearning system (Blackboard Learn). **Using the matrix, teachers and students can see with ease and objectivity where the problematic questions lie** and **discussions can be focused on those first**.

During the **talk** (**T11, 14:45-15:15, LSK202**), I will demonstrate how to use the CU elearning system to generate statistics for feeding into the matrix and how I use the matrix to drive effective discussions during my tutorials.



	1	2	3	4	5	6	7	8	9	10
A	0	208	1	130	12	15	6	3	11	0
B	214	0	0	5	4	0	206	2	193	14
C	0	2	4	52	177	2	1	205	3	2
D	0	1	207	27	15	16	1	3	2	0
E	0	3	2	0	6	181	0	1	5	198
	0	0	0	0	0	0	0	0	0	0

	11	12	13	14	15	16	17	18	19	20
A	45	1	59	3	1	148	2	0	180	19
B	158	0	117	0	0	10	201	214	23	173
C	0	201	2	0	213	46	3	0	0	8
D	1	1	36	6	0	0	7	0	3	12
E	9	11	0	205	0	10	1	0	8	2
	1	0	0	0	0	0	0	0	0	0

	21	22	23	24	25	26	27	28	29	30
A	9	2	30	35	189	12	10	162	9	64
D	[illegible]	5	56	5	4	57	170	3	23	85
C	88	202	10	0	3	8	13	21	105	5
D	87	1	19	1	0	78	5	27	12	16
E	7	4	97	173	18	58	15	0	7	1
	0	0	2	0	0	1	1	1	58	43

A typical matrix showing results of 30 MCQs from 214 students

LSCI1002 Introduction to Biological Sciences
Problem Set 3

% of students choosing A/B/C/D/E

	1	2	3	4	5	6	7	8	9	10
A	8	0	0	1	98	1	2	0	0	2
B	1	1	96	0	0	0	74	99	1	97
C	87	0	0	97	0	2	4	0	96	0
D	3	2	3	1	0	93	18	0	0	1
E	0	97	1	1	1	4	1	0	2	0
	0	0	0	0	0	0	0	0	0	0

	11	12	13	14	15	16	17	18	19	20
A	2	0	97	3	0	0	89	0	10	0
B	3	100	0	2	98	1	9	2	9	4
C	87	0	0	15	0	0	1	7	65	95
D	2	0	2	80	0	99	1	3	11	0
E	5	0	0	0	1	0	0	88	4	0
	0	0	0	0	0	0	0	0	0	0

	21	22	23	24	25	26	27	28	29	30
A	2	0	1	0	96	8	0	69	5	1
B	0	0	0	0	0	2	0	0	5	0
C	0	97	95	97	1	0	0	1	44	0
D	97	3	2	0	1	89	97	0	8	98
E	0	0	0	2	2	0	3	30	37	0
	0	0	0	0	0	0	0	0	0	0

	31	32	33	34	35	36	37	38	39	40
A	8	0	0	0	0	0	2	0	0	0
B	91	4	0	0	99	0	12	0	0	0
C	0	95	4	96	0	0	85	2	97	0
D	0	0	94	3	0	100	0	7	2	97
E	0	1	1	1	0	0	0	91	0	2
	0	0	0	0	0	0	0	0	0	1

Actual number of students choosing A/B/C/D/E

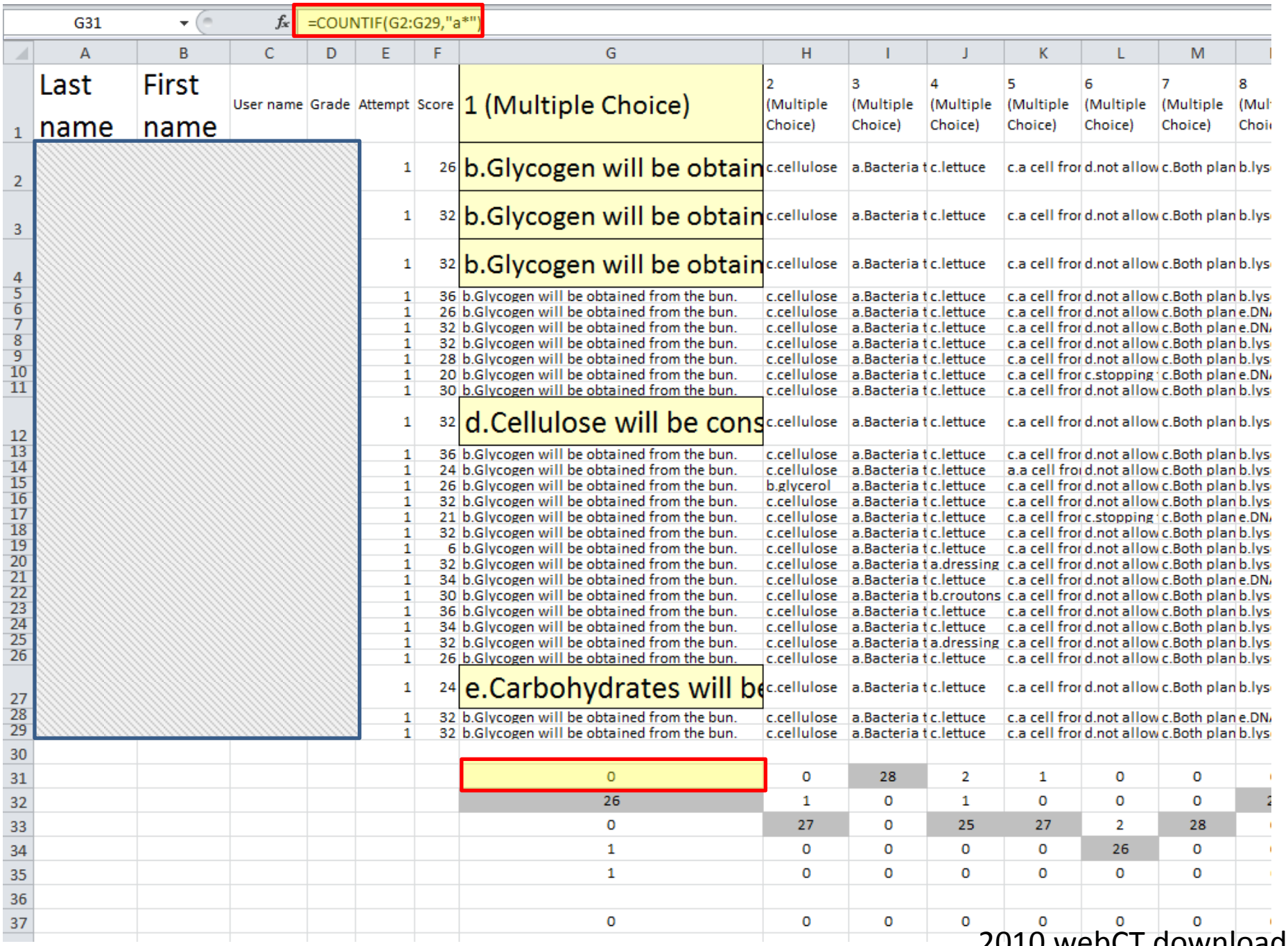
	1	2	3	4	5	6	7	8	9	10
A	16	0	0	2	206	2	4	1	0	4
B	3	3	202	0	1	0	156	208	2	204
C	184	0	0	204	1	5	9	1	203	0
D	7	4	7	2	1	196	39	1	1	2
E	0	204	2	3	2	8	3	0	5	1
	1	0	0	0	0	0	0	0	0	0

	11	12	13	14	15	16	17	18	19	20
A	5	0	205	7	1	0	188	0	21	0
B	7	210	1	4	206	2	18	4	19	9
C	184	0	0	32	1	0	2	15	138	200
D	4	1	4	168	0	209	3	6	24	1
E	11	0	1	0	3	0	0	185	8	0
	0	0	0	0	0	0	0	1	1	1

	21	22	23	24	25	26	27	28	29	30
A	4	0	3	1	199	17	0	143	10	3
B	1	0	0	0	0	5	0	0	11	0
C	0	201	198	201	2	0	0	2	92	0
D	202	6	5	1	2	185	201	0	17	204
E	0	0	1	4	4	0	7	62	77	1
	1	1	1	1	1	1	0	1	1	0

	31	32	33	34	35	36	37	38	39	40
A	18	0	0	0	1	0	5	0	0	1
B	193	9	1	0	209	1	25	0	0	0
C	0	201	9	203	1	0	180	5	206	0
D	1	0	199	7	1	211	1	14	5	205
E	0	2	3	2	0	0	1	193	1	4
	0	0	0	0	0	0	0	0	0	2

Matrix



G31 =COUNTIF(G2:G29,"a*")

	A	B	C	D	E	F	G	H	I	J	K	L	M	
1	Last name	First name	User name	Grade	Attempt	Score	1 (Multiple Choice)	2 (Multiple Choice)	3 (Multiple Choice)	4 (Multiple Choice)	5 (Multiple Choice)	6 (Multiple Choice)	7 (Multiple Choice)	8 (Mul Choi
2					1	26	b.Glycogen will be obtain	c.cellulose	a.Bacteria t	c.lettuce	c.a cell fror	d.not allow	c.Both plan	b.lys
3					1	32	b.Glycogen will be obtain	c.cellulose	a.Bacteria t	c.lettuce	c.a cell fror	d.not allow	c.Both plan	b.lys
4					1	32	b.Glycogen will be obtain	c.cellulose	a.Bacteria t	c.lettuce	c.a cell fror	d.not allow	c.Both plan	b.lys
5					1	36	b.Glycogen will be obtained from the bun.	c.cellulose	a.Bacteria t	c.lettuce	c.a cell fror	d.not allow	c.Both plan	b.lys
6					1	26	b.Glycogen will be obtained from the bun.	c.cellulose	a.Bacteria t	c.lettuce	c.a cell fror	d.not allow	c.Both plan	e.DN
7					1	32	b.Glycogen will be obtained from the bun.	c.cellulose	a.Bacteria t	c.lettuce	c.a cell fror	d.not allow	c.Both plan	e.DN
8					1	32	b.Glycogen will be obtained from the bun.	c.cellulose	a.Bacteria t	c.lettuce	c.a cell fror	d.not allow	c.Both plan	b.lys
9					1	28	b.Glycogen will be obtained from the bun.	c.cellulose	a.Bacteria t	c.lettuce	c.a cell fror	d.not allow	c.Both plan	b.lys
10					1	20	b.Glycogen will be obtained from the bun.	c.cellulose	a.Bacteria t	c.lettuce	c.a cell fror	c.stopping	c.Both plan	e.DN
11					1	30	b.Glycogen will be obtained from the bun.	c.cellulose	a.Bacteria t	c.lettuce	c.a cell fror	d.not allow	c.Both plan	b.lys
12					1	32	d.Cellulose will be cons	c.cellulose	a.Bacteria t	c.lettuce	c.a cell fror	d.not allow	c.Both plan	b.lys
13					1	36	b.Glycogen will be obtained from the bun.	c.cellulose	a.Bacteria t	c.lettuce	c.a cell fror	d.not allow	c.Both plan	b.lys
14					1	24	b.Glycogen will be obtained from the bun.	c.cellulose	a.Bacteria t	c.lettuce	a.a cell fror	d.not allow	c.Both plan	b.lys
15					1	26	b.Glycogen will be obtained from the bun.	b.glycerol	a.Bacteria t	c.lettuce	c.a cell fror	d.not allow	c.Both plan	b.lys
16					1	32	b.Glycogen will be obtained from the bun.	c.cellulose	a.Bacteria t	c.lettuce	c.a cell fror	d.not allow	c.Both plan	b.lys
17					1	21	b.Glycogen will be obtained from the bun.	c.cellulose	a.Bacteria t	c.lettuce	c.a cell fror	c.stopping	c.Both plan	e.DN
18					1	32	b.Glycogen will be obtained from the bun.	c.cellulose	a.Bacteria t	c.lettuce	c.a cell fror	d.not allow	c.Both plan	b.lys
19					1	6	b.Glycogen will be obtained from the bun.	c.cellulose	a.Bacteria t	c.lettuce	c.a cell fror	d.not allow	c.Both plan	b.lys
20					1	32	b.Glycogen will be obtained from the bun.	c.cellulose	a.Bacteria t	a.dressing	c.a cell fror	d.not allow	c.Both plan	b.lys
21					1	34	b.Glycogen will be obtained from the bun.	c.cellulose	a.Bacteria t	c.lettuce	c.a cell fror	d.not allow	c.Both plan	e.DN
22					1	30	b.Glycogen will be obtained from the bun.	c.cellulose	a.Bacteria t	b.croutons	c.a cell fror	d.not allow	c.Both plan	b.lys
23					1	36	b.Glycogen will be obtained from the bun.	c.cellulose	a.Bacteria t	c.lettuce	c.a cell fror	d.not allow	c.Both plan	b.lys
24					1	34	b.Glycogen will be obtained from the bun.	c.cellulose	a.Bacteria t	c.lettuce	c.a cell fror	d.not allow	c.Both plan	b.lys
25					1	32	b.Glycogen will be obtained from the bun.	c.cellulose	a.Bacteria t	a.dressing	c.a cell fror	d.not allow	c.Both plan	b.lys
26					1	26	b.Glycogen will be obtained from the bun.	c.cellulose	a.Bacteria t	c.lettuce	c.a cell fror	d.not allow	c.Both plan	b.lys
27					1	24	e.Carbohydrates will be	c.cellulose	a.Bacteria t	c.lettuce	c.a cell fror	d.not allow	c.Both plan	b.lys
28					1	32	b.Glycogen will be obtained from the bun.	c.cellulose	a.Bacteria t	c.lettuce	c.a cell fror	d.not allow	c.Both plan	e.DN
29					1	32	b.Glycogen will be obtained from the bun.	c.cellulose	a.Bacteria t	c.lettuce	c.a cell fror	d.not allow	c.Both plan	b.lys
30														
31							0	0	28	2	1	0	0	
32							26	1	0	1	0	0	0	2
33							0	27	0	25	27	2	28	
34							1	0	0	0	0	26	0	
35							1	0	0	0	0	0	0	
36														
37							0	0	0	0	0	0	0	

2010 webCT download

G31 =COUNTIF(G2:G29,"a*")

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
1	Last name	First name	User name	Grade	Attempt	Score	1 (Multiple Choice)	2 (Multiple Choice)	3 (Multiple Choice)	4 (Mu Cho				
2					1	26	b.Glycogen will be obtain	c.cellulose	a.Bacteria t	c.le				
3					1	32	b.Glycogen will be obtain	c.cellulose	a.Bacteria t	c.le				
4					1	32	b.Glycogen will be obtain	c.cellulose	a.Bacteria t	c.le				
5					1	36	b.Glycogen will be obtained from the bun.	c.cellulose	a.Bacteria t	c.le				
6					1	26	b.Glycogen will be obtained from the bun.	c.cellulose	a.Bacteria t	c.le				
7					1	32	b.Glycogen will be obtained from the bun.	c.cellulose	a.Bacteria t	c.le				
8					1	32	b.Glycogen will be obtained from the bun.	c.cellulose	a.Bacteria t	c.le				
9					1	28	b.Glycogen will be obtained from the bun.	c.cellulose	a.Bacteria t	c.le				
10					1	20	b.Glycogen will be obtained from the bun.	c.cellulose	a.Bacteria t	c.le				
11					1	30	b.Glycogen will be obtained from the bun.	c.cellulose	a.Bacteria t	c.le				
12					1	32	d.Cellulose will be cons	c.cellulose	a.Bacteria t	c.le				
13					1	36	b.Glycogen will be obtained from the bun.	c.cellulose	a.Bacteria t	c.le				
14					1	24	b.Glycogen will be obtained from the bun.	c.cellulose	a.Bacteria t	c.le				
15					1	26	b.Glycogen will be obtained from the bun.	b.glycerol	a.Bacteria t	c.le				
16					1	32	b.Glycogen will be obtained from the bun.	c.cellulose	a.Bacteria t	c.le				
17					1	21	b.Glycogen will be obtained from the bun.	c.cellulose	a.Bacteria t	c.le				
18					1	32	b.Glycogen will be obtained from the bun.	c.cellulose	a.Bacteria t	c.le				
19					1	6	b.Glycogen will be obtained from the bun.	c.cellulose	a.Bacteria t	c.le				
20					1	32	b.Glycogen will be obtained from the bun.	c.cellulose	a.Bacteria t	a.d				
21					1	34	b.Glycogen will be obtained from the bun.	c.cellulose	a.Bacteria t	c.le				
22					1	30	b.Glycogen will be obtained from the bun.	c.cellulose	a.Bacteria t	c.le				
23					1	36	b.Glycogen will be obtained from the bun.	c.cellulose	a.Bacteria t	b.cr				
24					1	34	b.Glycogen will be obtained from the bun.	c.cellulose	a.Bacteria t	c.le				
25					1	32	b.Glycogen will be obtained from the bun.	c.cellulose	a.Bacteria t	a.d				
26					1	26	b.Glycogen will be obtained from the bun.	c.cellulose	a.Bacteria t	c.le				
27					1	24	e.Carbohydrates will be	c.cellulose	a.Bacteria t	c.le				
28					1	32	b.Glycogen will be obtained from the bun.	c.cellulose	a.Bacteria t	c.le				
29					1	32	b.Glycogen will be obtained from the bun.	c.cellulose	a.Bacteria t	c.lettuce	c.a cell fror	d.not allow	c.Both plan	b.lys
30														
31							0	0	28	2	1	0	0	
32							26	1	0	1	0	0	0	2
33							0	27	0	25	27	2	28	
34							1	0	0	0	0	26	0	
35							1	0	0	0	0	0	0	
36														
37							0	0	0	0	0	0	0	

BIO1005-2010
Problem Set 1
Statistics

	1	2	3	4	5	6	7	8	9	10
A	0	0	28	2	1	0	0	0	24	1
B	26	1	0	1	0	0	0	22	1	0
C	0	27	0	25	27	2	28	0	1	4
D	1	0	0	0	0	26	0	0	2	1
E	1	0	0	0	0	0	0	6	0	22
	0	0	0	0	0	0	0	0	0	0

	11	12	13	14	15	16	17	18	19	20
A	27	1	27	1	26	27	15	27	25	0
B	0	0	0	12	0	0	0	0	0	0
C	0	3	0	1	0	0	6	0	0	0
D	0	0	0	13	1	0	2	0	0	27
E	0	23	0	0	0	0	4	0	1	0
	1	1	1	1	1	1	1	1	2	1

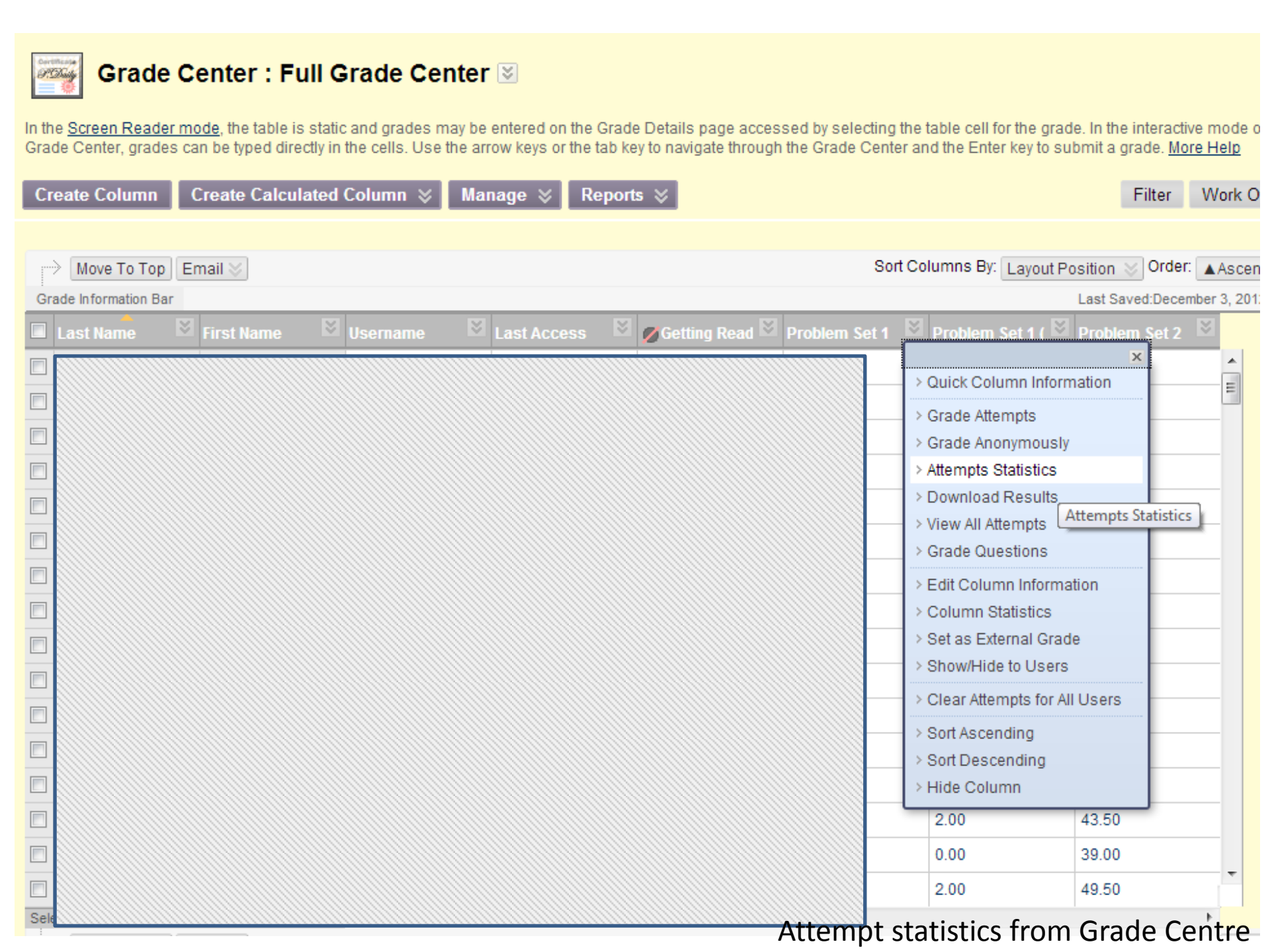
	21	22	23	24	25	26	27	28	29	30
A	26	0	0	1	27	0	0	5	0	0
B	1	27	10	21	0	26	0	19	0	23
C	0	0	0	1	0	1	0	0	27	0
D	0	0	17	3	0	0	27	0	0	0
E	0	0	0	0	0	0	0	2	0	2
	1	1	1	2	1	1	1	2	1	3

	31	32	33	34	35	36	37	38	39	40
A	0	0	0	2	0	0	0	0	1	12
B	0	0	1	1	27	0	0	1	0	10
C	0	0	0	3	0	6	27	13	0	2
D	27	0	26	1	0	21	0	0	26	0
E	0	27	0	18	0	0	0	13	0	3
	1	1	1	3	1	1	1	1	1	1

2010 webCT download & statistics

Username	Last Name	First Name	Question ID 1	Question 1	Answer 1	Possible Points 1	Auto Score 1	Manual Score 1	Question ID	Question 2	Answer 2	Possible Poi	Auto Score	Manu
			Question ID 1	Living organisms are	Carbon, hydrogen, n	1	1		Question ID	A covalent	one of the at	1	1	
			uestion ID 1	Living organisms are composed ma	Carbon, hydrogen, nitrogen, and ox	1	1		Question ID	A covalent	one of the atoms shari	1	1	
			uestion ID 1	Living organisms are composed ma	Carbon, hydrogen, nitrogen, and ox	1	1		Question ID	A covalent	one of the atoms shari	1	1	
			uestion ID 1	Living organisms are composed ma	Carbon, hydrogen, nitrogen, and ox	1	1		Question ID	A covalent	one of the atoms shari	1	1	
			uestion ID 1	Living organisms are composed ma	Carbon, hydrogen, nitrogen, and ox	1	1		Question ID	A covalent	one of the atoms shari	1	1	
			uestion ID 1	Living organisms are composed ma	Carbon, hydrogen, nitrogen, and ox	1	1		Question ID	A covalent	one of the atoms shari	1	1	
			uestion ID 1	Living organisms are composed ma	Carbon, hydrogen, nitrogen, and ox	1	1		Question ID	A covalent	one of the atoms shari	1	1	
			uestion ID 1	Living organisms are composed ma	Carbon, hydrogen, nitrogen, and ox	1	1		Question ID	A covalent	one of the atoms shari	1	1	
			uestion ID 1	Living organisms are composed ma	Carbon, hydrogen, nitrogen, and ox	1	1		Question ID	A covalent	one of the atoms shari	1	1	
			uestion ID 1	Living organisms are composed ma	Carbon, hydrogen, nitrogen, and ox	1	1		Question ID	A covalent	one of the atoms shari	1	1	
			uestion ID 1	Living organisms are composed ma	Carbon, hydrogen, nitrogen, and ox	1	1		Question ID	A covalent	the two atoms sharing	1	0	
			uestion ID 1	Living organisms are composed ma	Carbon, hydrogen, nitrogen, and ox	1	1		Question ID	A covalent	one of the atoms shari	1	1	
			uestion ID 1	Living organisms are composed ma	Carbon, hydrogen, nitrogen, and ox	1	1		Question ID	A covalent	one of the atoms shari	1	1	
			uestion ID 1	Living organisms are composed ma	Carbon, hydrogen, nitrogen, and ox	1	1		Question ID	A covalent	one of the atoms shari	1	1	
			uestion ID 1	Living organisms are composed ma	Carbon, hydrogen, nitrogen, and ox	1	1		Question ID	A covalent	one of the atoms shari	1	1	
			uestion ID 1	Living organisms are composed ma	Carbon, hydrogen, nitrogen, and ox	1	1		Question ID	A covalent	one of the atoms shari	1	1	
			uestion ID 1	Living organisms are composed ma	Carbon, hydrogen, nitrogen, and ox	1	1		Question ID	A covalent	one of the atoms shari	1	1	
			uestion ID 1	Living organisms are composed ma	Carbon, hydrogen, nitrogen, and ox	1	1		Question ID	A covalent	the two atoms sharing	1	0	
			uestion ID 1	Living organisms are composed ma	Carbon, hydrogen, nitrogen, and ox	1	1		Question ID	A covalent	oxygen is one of the tv	1	0	
			uestion ID 1	Living organisms are composed ma	Carbon, hydrogen, nitrogen, and ox	1	1		Question ID	A covalent	one of the atoms shari	1	1	
			uestion ID 1	Living organisms are composed ma	Carbon, hydrogen, nitrogen, and ox	1	1		Question ID	A covalent	one of the atoms shari	1	1	
			uestion ID 1	Living organisms are composed ma	Carbon, hydrogen, nitrogen, and ox	1	1		Question ID	A covalent	one of the atoms shari	1	1	
			uestion ID 1	Living organisms are composed ma	Carbon, hydrogen, nitrogen, and ox	1	1		Question ID	A covalent	one of the atoms shari	1	1	
			uestion ID 1	Living organisms are composed ma	Carbon, hydrogen, nitrogen, and ox	1	1		Question ID	A covalent	one of the atoms shari	1	1	
			uestion ID 1	Living organisms are composed ma	Carbon, hydrogen, nitrogen, and ox	1	1		Question ID	A covalent	one of the atoms shari	1	1	
			uestion ID 1	Living organisms are composed ma	Carbon, hydrogen, nitrogen, and ox	1	1		Question ID	A covalent	one of the atoms shari	1	1	
			uestion ID 1	Living organisms are composed ma	Carbon, hydrogen, nitrogen, and ox	1	1		Question ID	A covalent	one of the atoms shari	1	1	
			uestion ID 1	Living organisms are composed ma	Carbon, hydrogen, nitrogen, and ox	1	1		Question ID	A covalent	one of the atoms shari	1	1	
			uestion ID 1	Living organisms are composed ma	Carbon, hydrogen, nitrogen, and ox	1	1		Question ID	A covalent	one of the atoms shari	1	1	
			uestion ID 1	Living organisms are composed ma	Carbon, hydrogen, nitrogen, and ox	1	1		Question ID	A covalent	one of the atoms shari	1	1	
			uestion ID 1	Living organisms are composed ma	Carbon, hydrogen, nitrogen, and ox	1	1		Question ID	A covalent	one of the atoms shari	1	1	
			uestion ID 1	Living organisms are composed ma	Carbon, hydrogen, nitrogen, and ox	1	1		Question ID	A covalent	one of the atoms shari	1	1	
			uestion ID 1	Living organisms are composed ma	Carbon, hydrogen, nitrogen, and ox	1	1		Question ID	A covalent	one of the atoms shari	1	1	
			uestion ID 1	Living organisms are composed ma	Carbon, hydrogen, nitrogen, and ox	1	1		Question ID	A covalent	one of the atoms shari	1	1	
			uestion ID 1	Living organisms are composed ma	Carbon, hydrogen, nitrogen, and ox	1	1		Question ID	A covalent	one of the atoms shari	1	1	
			uestion ID 1	Living organisms are composed ma	Carbon, hydrogen, nitrogen, and ox	1	1		Question ID	A covalent	one of the atoms shari	1	1	
			uestion ID 1	Living organisms are composed ma	Carbon, hydrogen, nitrogen, and ox	1	1		Question ID	A covalent	one of the atoms shari	1	1	
			uestion ID 1	Living organisms are composed ma	Carbon, hydrogen, nitrogen, and ox	1	1		Question ID	A covalent	one of the atoms shari	1	1	
			uestion ID 1	Living organisms are composed ma	Carbon, hydrogen, nitrogen, and ox	1	1		Question ID	A covalent	one of the atoms shari	1	1	
			uestion ID 1	Living organisms are composed ma	Carbon, hydrogen, nitrogen, and ox	1	1		Question ID	A covalent	one of the atoms shari	1	1	
			uestion ID 1	Living organisms are composed ma	Carbon, hydrogen, nitrogen, and ox	1	1		Question ID	A covalent	one of the atoms shari	1	1	
			uestion ID 1	Living organisms are composed ma	Carbon, hydrogen, nitrogen, and ox	1	1		Question ID	A covalent	one of the atoms shari	1	1	
			uestion ID 1	Living organisms are composed ma	Carbon, hydrogen, nitrogen, and ox	1	1		Question ID	A covalent	one of the atoms shari	1	1	
			uestion ID 1	Living organisms are composed ma	Carbon, hydrogen, nitrogen, and ox	1	1		Question ID	A covalent	one of the atoms shari	1	1	
			uestion ID 1	Living organisms are composed ma	Carbon, hydrogen, nitrogen, and ox	1	1		Question ID	A covalent	one of the atoms shari	1	1	
			uestion ID 1	Living organisms are composed ma	Carbon, hydrogen, nitrogen, and ox	1	1		Question ID	A covalent	one of the atoms shari	1	1	
			uestion ID 1	Living organisms are composed ma	Carbon, hydrogen, nitrogen, and ox	1	1		Question ID	A covalent	one of the atoms shari	1	1	
			uestion ID 1	Living organisms are composed ma	Carbon, hydrogen, nitrogen, and ox	1	1		Question ID	A covalent	one of the atoms shari	1	1	
			uestion ID 1	Living organisms are composed ma	Carbon, hydrogen, nitrogen, and ox	1	1		Question ID	A covalent	one of the atoms shari	1	1	
			uestion ID 1	Living organisms are composed ma	Carbon, hydrogen, nitrogen, and ox	1	1		Question ID	A covalent	one of the atoms shari	1	1	
			uestion ID 1	Living organisms are composed ma	Carbon, hydrogen, nitrogen, and ox	1	1		Question ID	A covalent	one of the atoms shari	1	1	
			uestion ID 1	Living organisms are composed ma	Carbon, hydrogen, nitrogen, and ox	1	1		Question ID	A covalent	one of the atoms shari	1	1	
			uestion ID 1	Living organisms are composed ma	Carbon, hydrogen, nitrogen, and ox	1	1		Question ID	A covalent	one of the atoms shari	1	1	
			uestion ID 1	Living organisms are composed ma	Carbon, hydrogen, nitrogen, and ox	1	1		Question ID	A covalent	one of the atoms shari	1	1	
			uestion ID 1	Living organisms are composed ma	Carbon, hydrogen, nitrogen, and ox	1	1		Question ID	A covalent	one of the atoms shari	1	1	

2012 elearn download



Attempt statistics from Grade Centre

Test Statistics: Problem Set 1

The statistics are calculated based only on the attempts being used in the grading option (Last attempt, First attempt, Lowest Score, Highest Score, or Average of Scores). If Average of Scores is the grading option, then all attempts are included in the statistics.

Name	Problem Set 1
Score	41.63551
Attempts	213 (Total of 213 attempts for this assessment)
Graded Attempts	213
Attempts that Need Grading	0
Instructions	For Q1-40 (multiple choice questions), choose the best answer for each question; one mark will be given for a correct answer. For Q41-45 (short-answer questions), enter your answers in the space provided. Make sure you save your answers frequently. With your answers saved, you may close the browser and resume the test anytime before the deadline. Remember to have your test submitted by clicking the "**Save and Submit**" button **before the deadline**. Good luck!
Alignments	

Question 1: Multiple Choice

Average Score 1 points

Living organisms are composed mainly of which atoms?

Correct		Percent Answered
	Calcium, hydrogen, nitrogen, and oxygen	0%
☑	Carbon, hydrogen, nitrogen, and oxygen	100%
	Hydrogen, nitrogen, oxygen, and helium	0%
	Carbon, helium, nitrogen, and oxygen	0%
	Carbon, calcium, hydrogen, and oxygen	0%
	Unanswered	0%

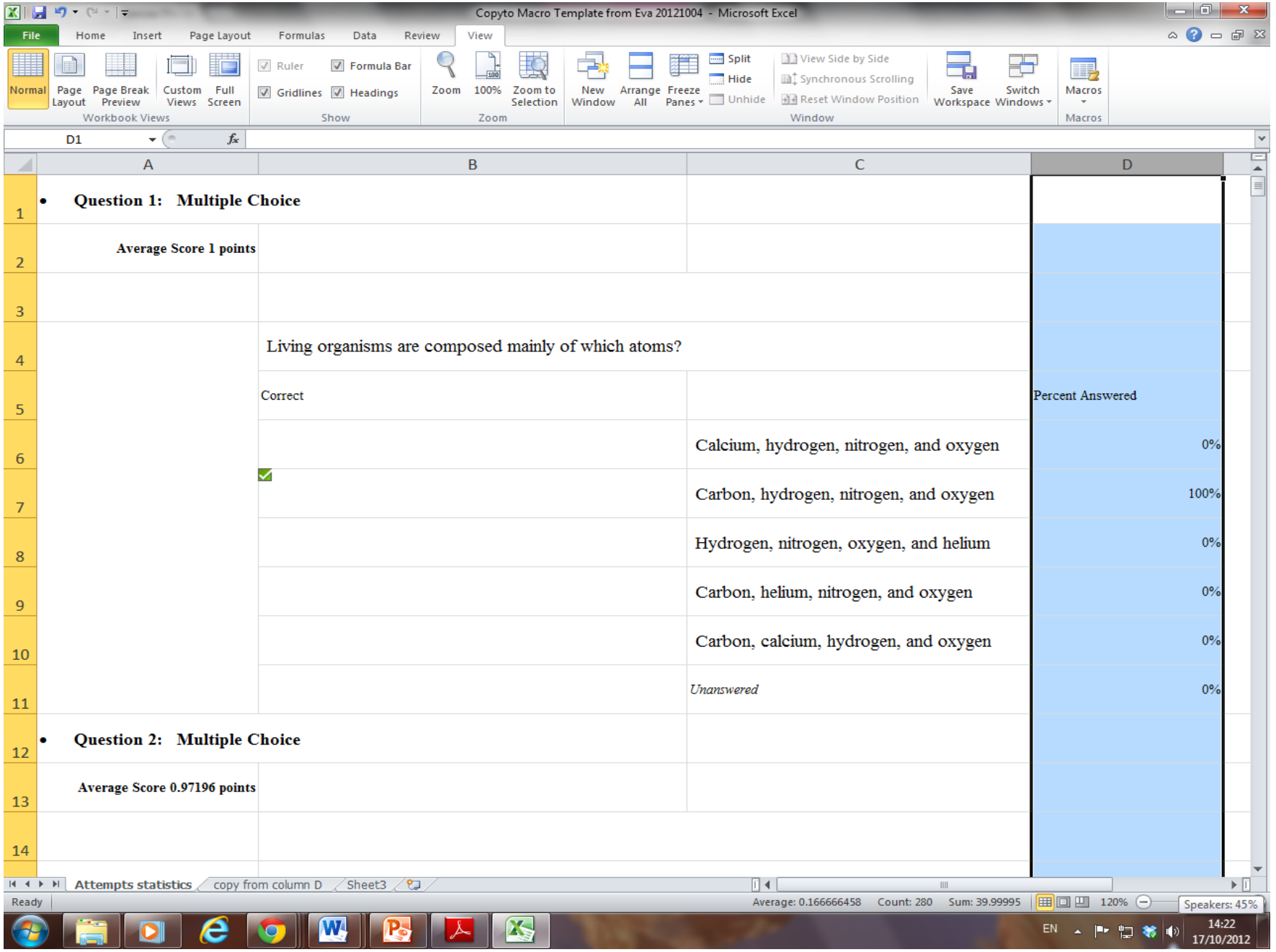
Question 2: Multiple Choice

Average Score 0.97183 points

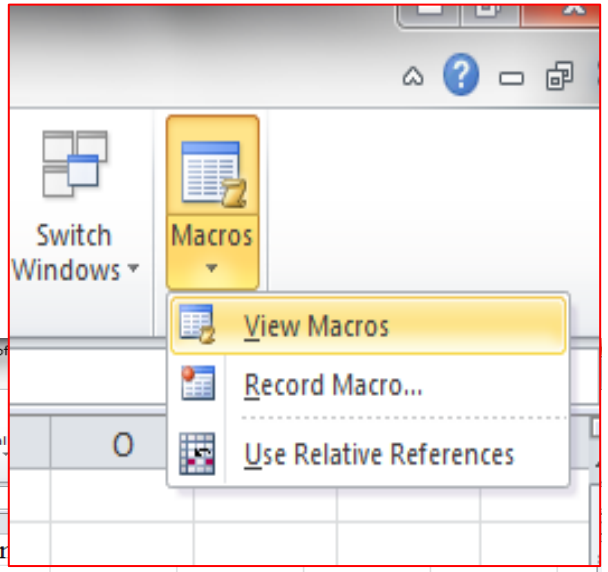
A covalent bond is likely to be polar when

Correct	Percent Answered

Test statistics view



2012-elearn attempt statistics



Copyto Macro Template from Eva 20121004 (w illustration 20121017) - Microsof

File | Home | Insert | Page Layout | Formulas | Data | Review | View

Cut
Copy
Format Painter
Paste
Clipboard
Times New Roman 18
Font
Wrap Text
Merge & Center
Alignment
General
Number
Conditional Formatting

C10 100

	A	B	C	D	E	F	G	H	I				
1			Percent	Percent A	Percent A	Percent A	Percent A	Percent A	Percer				
2			0	0.97196	0.00467	0.60748	0.05607	0.07009	0.02804	0.01402	0.0514	0	0.21028	0
3			1	0	0	0.02336	0.01869	0	0.96262	0.00935	0.90187	0.06542	0.73832	
4			0	0.00935	0.01869	0.24299	0.8271	0.00935	0.00467	0.95794	0.01402	0.00935	0	0
5	Percent Answered		0	0.00467	0.96729	0.12617	0.07009	0.07477	0.00467	0.01402	0.00935	0	0.00467	0
6	0%		0	0.01402	0.00935	0	0.02804	0.84579	0	0.00467	0.02336	0.92523	0.04206	
7	100%		0	0	0	0	0	0	0	0	0	0	0.00467	
8	0%													
9	0%													
10	0%		100	100	100	100	100	100	100	100	100	100	100	
11	0%					100	100	100	100	100	100	100	100	
12						100				100	100	100	100	
13						100				100	100	100	100	
14										100	100	100	100	
15										100	100	100	100	
16	Percent Answered													
17	97.20%													
18										214	214	214	214	
19	0%									214	214	214	214	
20	0.94%									214	214	214	214	
21	0.47%					4	214			214	214	214	214	
22	1.40%					4	214			214	214	214	214	
23	0%		214	214	214	214				214	214	214	214	
24														
25														

Times Ne 18

Cut
Copy
Paste Options:
Paste Special...
Insert Copied Cells...
Delete...
Clear Contents
Filter
Sort
Insert Comment
Format Cells...
Pick From Drop-down List...
Define Name...
Hyperlink...

Paste
Paste Values
Other Paste Options
Paste Special...

Paste Special

Paste
All
Formulas
Values
Formats
Comments
Validation
All using Source theme
All except borders
Column widths
Formulas and number formats
Values and number formats
All merging conditional formats

Operation
None
Add
Subtract
Multiply
Divide

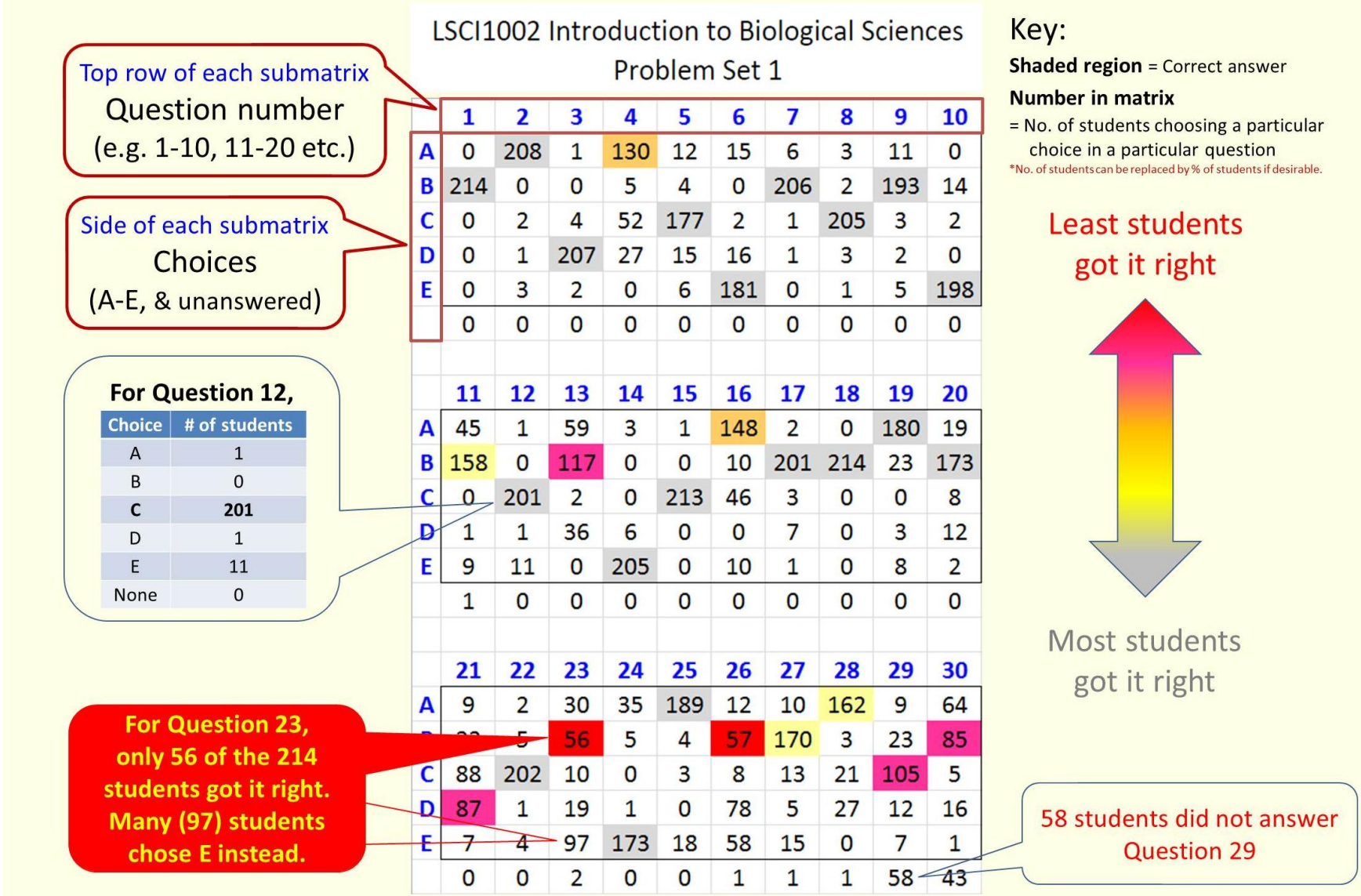
Skip blanks
Transpose
Paste Link
OK
Cancel

2012-elearn attempt statistics

		Percent	Percent A	Percent A	Percent A	Percent A	Percent A	Percent A	Percent A	Percent A	Percent A	Percent A	Pe
2		0	0.97196	0.00467	0.60748	0.05607	0.07009	0.02804	0.01402	0.0514	0	0.21028	0
3		1	0	0	0.02336	0.01869	0	0.96262	0.00935	0.90187	0.06542	0.73832	
4		0	0.00935	0.01869	0.24299	0.8271	0.00935	0.00467	0.95794	0.01402	0.00935	0	0
5	Percent Answered	0	0.00467	0.96729	0.12617	0.07009	0.07477	0.00467	0.01402	0.00935	0	0.00467	0
6	0%	0	0.01402	0.00935	0	0.02804	0.84579	0	0.00467	0.02336	0.92523	0.04206	
7	100%	0	0	0	0	0	0	0	0	0	0	0.00467	
8	0%												
9	0%												
10	0%	0	97.196	0.467	60.748	5.607	7.009	2.804	1.402	5.14	0	21.028	
11	0%	100	0	0	2.336	1.869	0	96.262	0.935	90.187	6.542	73.832	
12		0	0.935	1.869	24.299	82.71	0.935	0.467	95.794	1.402	0.935	0	
13		0	0.467	96.729	12.617	7.009	7.477	0.467	1.402	0.935	0	0.467	
14		0	1.402	0.935	0	2.804	84.579	0	0.467	2.336	92.523	4.206	
15		0	0	0	0	0	0	0	0	0	0	0.467	
16	Percent Answered												
17													
18	97.20%	0	207.999	0.99938	130.001	11.999	14.9993	6.00056	3.00028	10.9996	0	44.9999	0
19	0%	214	0	0	4.99904	3.99966	0	206.001	2.0009	193	13.9999	158	
20	0.94%	0	2.0009	3.99966	51.9999	176.999	2.0009	0.99938	204.999	3.00028	2.0009	0	
21	0.47%	0	0.99938	207	27.0004	14.9993	16.0008	0.99938	3.00028	2.0009	0	0.99938	0
22	1.40%	0	3.00028	2.0009	0	6.00056	180.999	0	0.99938	4.99904	197.999	9.00084	1
23	0%	0	0	0	0	0	0	0	0	0	0	0.99938	
24													

(Ctrl)

2012-elearn attempt statistics



	1	2	3	4	5	6	7	8	9	10
A	0	208	1	130	12	15	6	3	11	0
B	214	0	0	5	4	0	206	2	193	14
C	0	2	4	52	177	2	1	205	3	2
D	0	1	207	27	15	16	1	3	2	0
E	0	3	2	0	6	181	0	1	5	198
	0	0	0	0	0	0	0	0	0	0

	11	12	13	14	15	16	17	18	19	20
A	45	1	59	3	1	148	2	0	180	19
B	158	0	117	0	0	10	201	214	23	173
C	0	201	2	0	213	46	3	0	0	8
D	1	1	36	6	0	0	7	0	3	12
E	9	11	0	205	0	10	1	0	8	2
	1	0	0	0	0	0	0	0	0	0

	21	22	23	24	25	26	27	28	29	30
A	9	2	30	35	189	12	10	162	9	64
D	[illegible]	5	56	5	4	57	170	3	23	85
C	88	202	10	0	3	8	13	21	105	5
D	87	1	19	1	0	78	5	27	12	16
E	7	4	97	173	18	58	15	0	7	1
	0	0	2	0	0	1	1	1	58	43

A typical matrix showing results of 30 MCQs from 214 students

Test Statistics: Problem Set 1 + Problem Set 1 (supp)

The statistics are calculated based only on the attempts being used in the grading option (Last attempt, First attempt, Lowest Score, Highest Score, or Average of Scores). If Average of Scores is the grading option, then all attempts are included in the statistics.

Content

Name	Problem Set 1+ Problem Set 1 (supp)
Score	41.63551
Attempts	214 (Total of 214 attempts for this assessment) [171 for Q29-30 in Problem Set 1 (supp)]
Graded Attempts	214
Attempts that Need Grading	0
Instructions	For Q1-40 (multiple choice questions), choose the best answer for each question; one mark will be given for a correct answer. For Q41-45 (short-answer questions), enter your answers in the space provided. Make sure you save your answers frequently. With your answers saved, you may close the browser and resume the test anytime before the deadline. Remember to have your test submitted by clicking the "**Save and Submit**" button **before the deadline**. Good luck!
Alignments	

Question 1: Multiple Choice

Average Score 1 points

Living organisms are composed mainly of which atoms?

Correct			Percent Answered
	A	Calcium, hydrogen, nitrogen, and oxygen	0%
✓	B	Carbon, hydrogen, nitrogen, and oxygen	100%
	C	Hydrogen, nitrogen, oxygen, and helium	0%
	D	Carbon, helium, nitrogen, and oxygen	0%
	E	Carbon, calcium, hydrogen, and oxygen	0%
		Unanswered	0%

Question 2: Multiple Choice

Average Score 0.97196 points

A covalent bond is likely to be polar when

Correct			Percent Answered
✓	A	one of the atoms sharing electrons is much more electronegative than the other atom.	97.20%
	B	the two atoms sharing electrons are equally electronegative.	0%
	C	oxygen is one of the two atoms sharing electrons.	0.94%
	D	one of the atoms has absorbed more energy than the other atom.	0.47%
	E	the two atoms sharing electrons are different elements.	1.40%
		Unanswered	0%

Question 3: Multiple Choice

Average Score 0.96729 points

2012-elearn attempt statistics-formatted

Unanswered 0%

Question 23: Multiple Choice

Average Score 0.26168 points

A transmembrane protein in the plasma membrane is glycosylated at two sites in the polypeptide sequence. One site is Asn-Val-Ser and the other site is Asn-Gly-Thr. Where in this protein would you expect these two sites to be found?

May

Fig. 5.16 (p125)

Correct			Percent Answered
	A	in transmembrane segments	14.02%
✓	B	in hydrophilic regions that project into the extracellular environment	26.17%
	C	in hydrophilic regions that project into the cytosol	4.67%
	D	could be anywhere	8.88%
	E	B and C only	45.33%
		Unanswered	0.94%

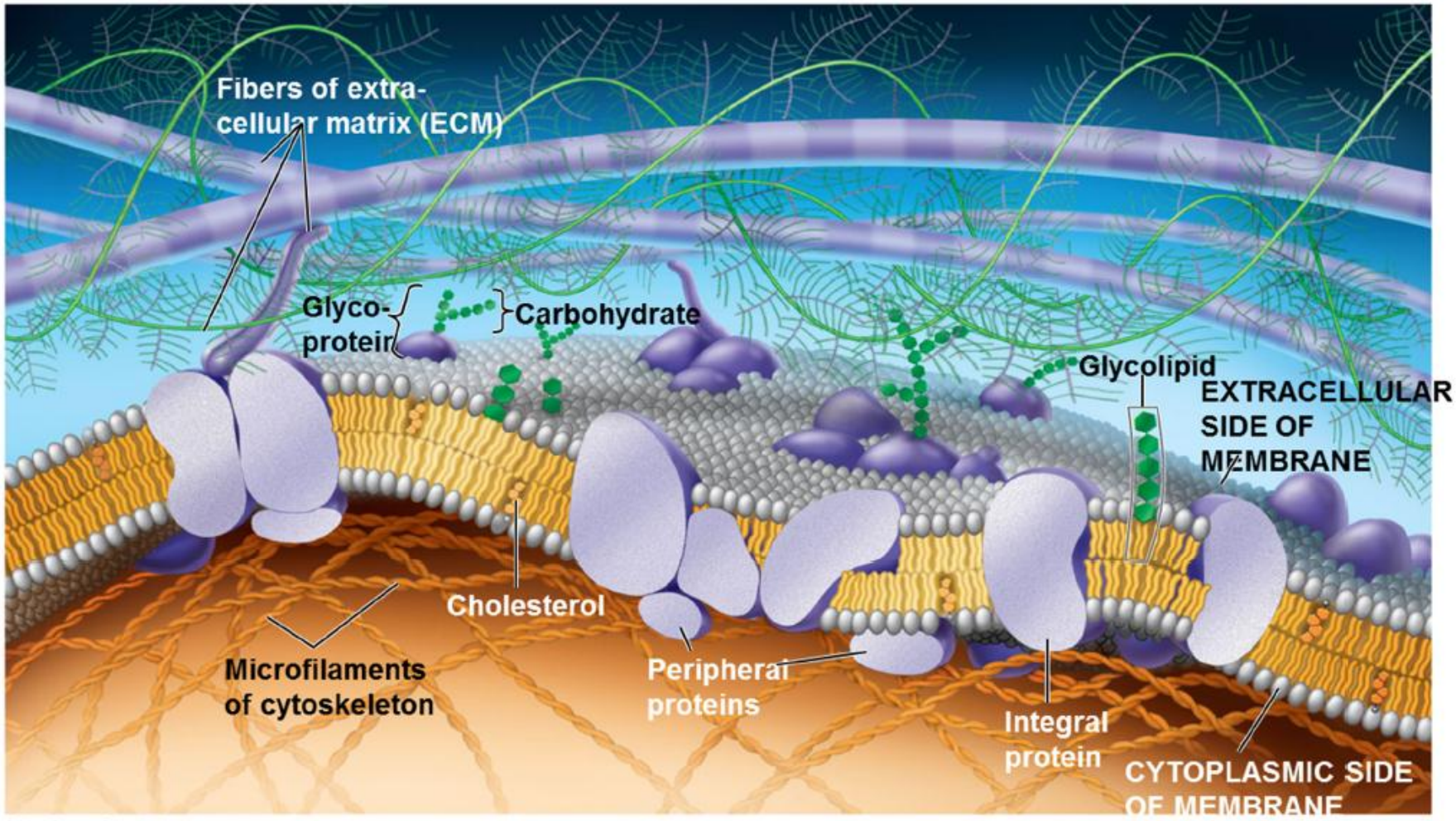
Question 24: Multiple Choice

Average Score 0.80841 points

What structural features of a membrane are major contributions to its selective permeability?

Correct			Percent Answered
	A	Phospholipid bilayer	16.36%
	B	Transport proteins	2.34%
	C	Glycolipids on the outer surface of the membrane	0%
	D	Peripheral membrane proteins on the inside of the membrane	0.47%
✓	E	Both A and B	80.84%
		Unanswered	0%

Q23



PM pic


uReply
English | 中文
Teacher login page
Existing user
Username
Forgot username?
Password
Forgot password?
Login
New user
Enter as guest
Help
Learn more
System condition:
Poor
Excellent
uReply © The Chinese University of Hong Kong, 2012.
Learn Mobile CUHK

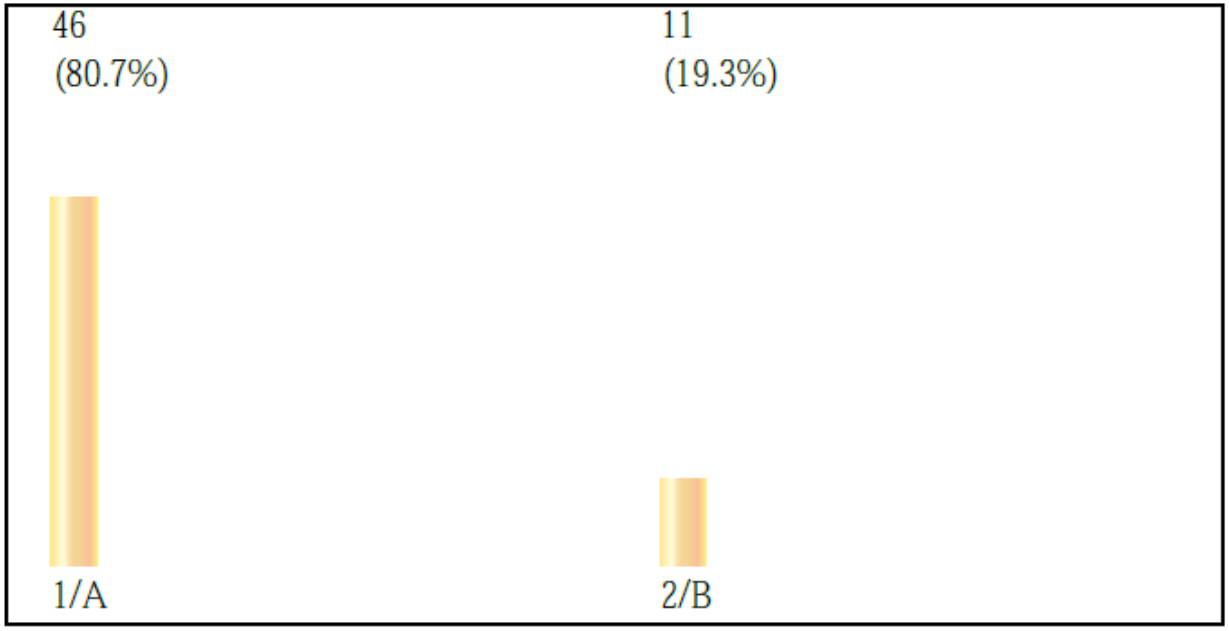
UReply

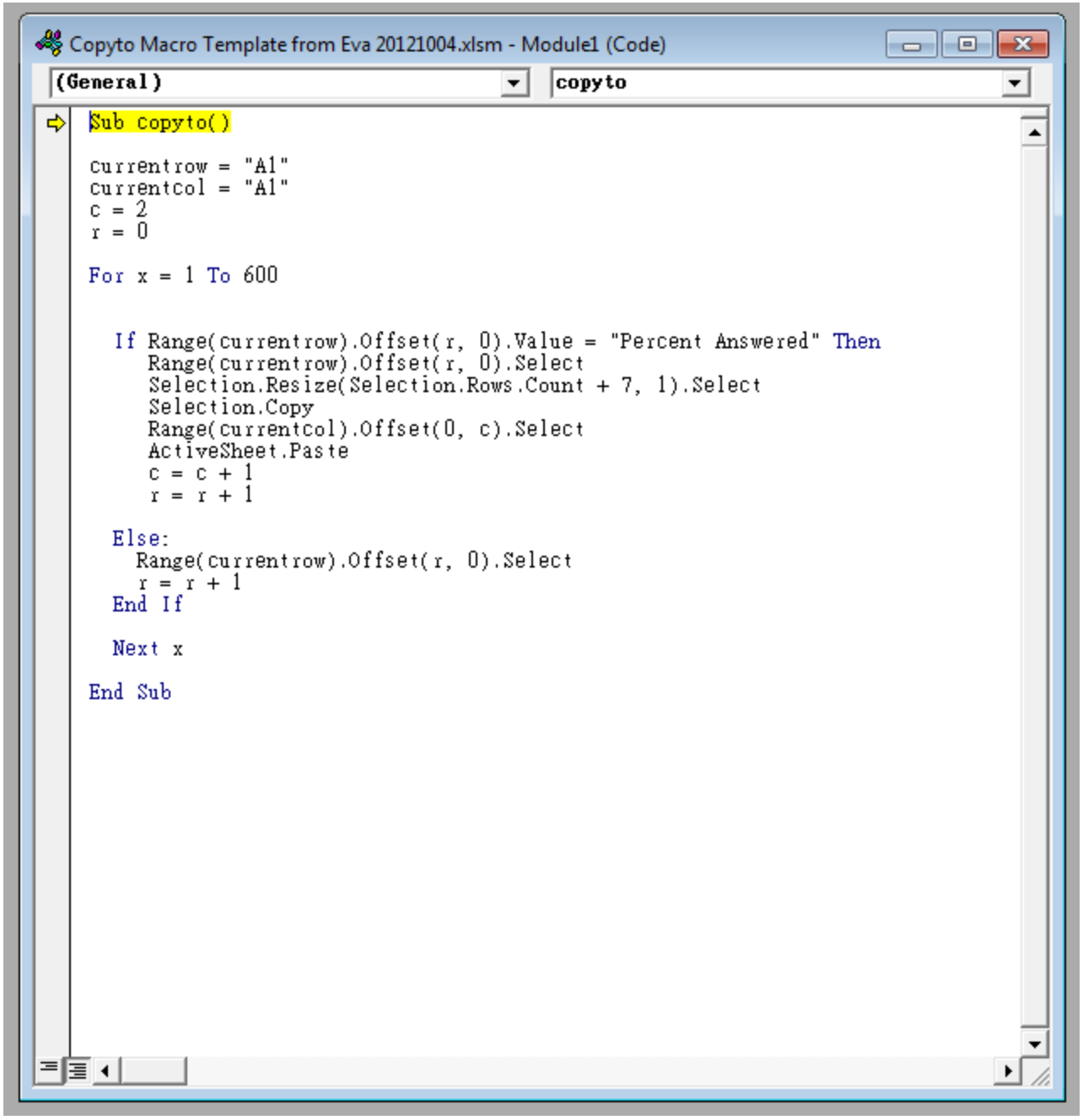
uReply report for session
698

Full report for session: 698. (December 6, 2012, 2:39 pm)

Question number: 1
Question text:
A. Hydrophilic
B. Hydrophobic

Total answered response(s): 57
Number of answers: 2




Copyto Macro Template from Eva 20121004.xlsm - Module1 (Code)
(General)
copyto
Sub copyto()
currentrow = "A1"
currentcol = "A1"
c = 2
r = 0
For x = 1 To 600
If Range(currentrow).Offset(r, 0).Value = "Percent Answered" Then
Range(currentrow).Offset(r, 0).Select
Selection.Resize(Selection.Rows.Count + 7, 1).Select
Selection.Copy
Range(currentcol).Offset(0, c).Select
ActiveSheet.Paste
c = c + 1
r = r + 1
Else:
Range(currentrow).Offset(r, 0).Select
r = r + 1
End If
Next x
End Sub

Macro