2021-2022 Spring BIO301E OUTCOMES	1	2	3	4	5	6	7	8	9	1 0	1 1	1 2	1 3	1 4	1 5	1 6	1 7	1 8	1 9	2 0	2	2 2	2 3	2 4	2 5	2 6	2 7	2 8	2 9	3 0	3 1	3 2	3 3	3 4	3 5	3 6	3 7	3 8	3 9	4 0	4
1.learning basic properties of life and living cell.							X			X																									X	X				X	
2.learning structure and functions of biomolecules forming the life		X							X	X			X					X								X									X	X	X				
3.having knowledge about cell, organelle and membrane structures and their functions			X	X		X					X	X		X	X	X	X			X	X	X			X	X								X		X					
4.having a general information about cell metabolism					X														X																				X		X
5.learning cell cycle, meiosis and mitosis in detail	X							X															X				X		X												
6.have knowledge about the molecular and chromosomal basis of inheritance		X																						X				X		X	X	X	X					X			
7.have an idea on evolution, populations and molecular biology.																																								X	
AVERAGE (OVER 100) SECTION 1: 52,7 SECTION 2: 55,3																																									

## SHORT EXAMS-Q1-Q2-Q3

2021-2022 Spring BIO301E OUTCOMES	1	2	3	4	5	6	7	8	9	10	1	1	3	4	5	6	7	8	9	10	1	2	3	4	5	6	7	8	9	10		
1.learning basic properties of life and living cell.			X			X									X											X	X	X		X		
2.learning structure and functions of biomolecules forming the life	X		X				X	X																								
3.having knowledge about cell, organelle and membrane structures and their functions		X		X					X	X																						
4.having a general information about cell metabolism					X														X													
5.learning cell cycle, meiosis and mitosis in detail																				X												
6.have knowledge about the molecular and chromosomal basis of inheritance												X	X					X														
7.have an idea on evolution, populations and molecular biology.											X	X		X	X	X	X	X			X	X	X	X	X	X	X	X	X	X		
AVERAGE (OVER 100) SECTION 1:65,5 SECTION 2:77,2																																

2021-2022 Spring BIO301E OUTCOMES	1	2	3	4	5	6	7	8	9	1 0	1	1 2	1 3	1 4	1 5	1 6	1 7	1 8	1 9	2 0	2 1	2 2	2 3	2 4	2 5	2 6	2 7	2 8	2 9	3 0	3	3 2	3 3	3 4	3 5	3 6	3 7	3 8	3 9
1.learning basic properties of life and living cell.											X								X																X				
2.learning structure and functions of biomolecules forming the life											X																												
3.having knowledge about cell, organelle and membrane structures and their functions									X			X																											
4.having a general information about cell metabolism																								X															
5.learning cell cycle, meiosis and mitosis in detail								X							X	X							X																
6.have knowledge about the molecular and chromosomal basis of inheritance				X			X							X								X			X	X													
7.have an idea on evolution, populations and molecular biology.	X	X	X	X	X	X				X			X				X	X	X	X	X						X	X	X	X	X	X	X	X	X	X	X	X	X
AVERAGE (OVER 100) SECTION 1: 49,7 SECTION 2:49,3																																							

2021-2022 Fall BIO301E OUTCOMES	1	2	3	4	5	6	7	8	9	1 0	1 1	1 2	1 3	1 4	1 5	1 6	1 7	1 8	1 9	2 0	2 1	2 2	2 3	2 4
1.learning basic properties of life and living cell.	X		X														X							
2.learning structure and functions of biomolecules forming the life				X					X			X	X			X	X							
3.having knowledge about cell, organelle and membrane structures and their functions			X		X	X	X		X										X					
4.having a general information about cell metabolism		X						X		X										X	X	X	X	
5.learning cell cycle, meiosis and mitosis in detail											X			X				X						X
6.have knowledge about the molecular and chromosomal basis of inheritance															X									
7.have an idea on evolution, populations and molecular biology.																								
AVERAGE (/100) SECTION1: 53,9 SECTION2: 51,6																								

## SHORT EXAMS-Q1-Q2-Q3

2021-2022 Fall BIO301E OUTCOMES	1	2	3	4	5	6	7	8	9	10	1	2	3	4	5	6	7	1	2	3	4	5	6						
1.learning basic properties of life and living cell.	X			X							X				X	X	X	X		X	X								
2.learning structure and functions of biomolecules forming the life	X	X			X	X				X																			
3.having knowledge about cell, organelle and membrane structures and their functions			X				X	X		X																			
4.having a general information about cell metabolism									X																				
5.learning cell cycle, meiosis and mitosis in detail							X																						
6.have knowledge about the molecular and chromosomal basis of inheritance																													
7.have an idea on evolution, populations and molecular biology.																	X	X	X	X	X	X	X	X					
AVERAGE (OVER 100) SECTION 1: 59,1 SECTION 2: 58,8																													

2021-2022 Fall BIO301E OUTCOMES	1	2	3	4	5	6	7	8	9	1 0	1	1 2	1 3	1 4	1 5	1 6	1 7	1 8	1 9	2 0	2	2 2	2 3	2 4	2 5	2 6	2 7	2 8	2 9	3 0	3 1	3 2	3 3	3 4	3 5	3 6
1.learning basic properties of life and living cell.															X																					
2.learning structure and functions of biomolecules forming the life									X										X					X												
3.having knowledge about cell, organelle and membrane structures and their functions								X		X																										
4.having a general information about cell metabolism										X											X															
5.learning cell cycle, meiosis and mitosis in detail				X			X					X	X							X																
6.have knowledge about the molecular and chromosomal basis of inheritance			X			X					X		X				X	X				X	X													
7.have an idea on evolution, populations and molecular biology.	X	X	X	X	X									X	X	X	X								X	X	X	X	X	X	X	X	X	X	X	X
AVERAGE (/100) SECTION 1: 43,2 SECTION 2:41,4																																				

2020-2021 Spring BIO301E OUTCOMES	1	2	3	4	5	6	7	8	9	1 0	1 1	1 2	1 3	1 4	1 5	1 6	1 7	1 8	1 9	2 0	2	2 2	2 3	2 4	2 5	2 6	2 7	2 8	2 9	3 0					
1.learning basic properties of life and living cell.	X					X												X							X		X								
2.learning structure and functions of biomolecules forming the life		X		X						X							X		X	X		X	X						X	X					
3.having knowledge about cell, organelle and membrane structures and their functions			X		X			X				X		X		X								X		X	X	X							
4.having a general information about cell metabolism							X				X		X						X																
5.learning cell cycle, meiosis and mitosis in detail																																			
6.have knowledge about the molecular and chromosomal basis of inheritance																																			
7.have an idea on evolution, populations and molecular biology.																																			
AVERAGE (OVER 100) SECTION 1: SECTION 2:																																			

2020-2021 Spring BIO301E OUTCOMES	1	2	3	4	5	6	7	8	9	1 0	1	1 2	1 3	1 4	1 5	1 6	1 7	1 8	1 9	2 0	2 1	2 2	2 3	2 4	2 5
1.learning basic properties of life and living cell.																									
2.learning structure and functions of biomolecules forming the life																					X				
3.having knowledge about cell, organelle and membrane structures and their functions																				X		X			
4.having a general information about cell metabolism																									
5.learning cell cycle, meiosis and mitosis in detail																			X					X	X
6.have knowledge about the molecular and chromosomal basis of inheritance										X				X	X	X	X	X					X		
7.have an idea on evolution, populations and molecular biology.	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X									
AVERAGE (OVER 100) SECTION 1: SECTION 2:																									

												—																						 	 	 
2020-2021 Fall BIO301E OUTCOMES	1	2	3	4	5	6	7	8	9	1 0	1	1 2	1 3	1 4	1 5	1 6	1 7	1 8	1 9	2 0	2	2 2	2 3	2 4	2 5	2 6	2 7	2 8	2 9	3 0	3	3 2	3 3			
1.learning basic properties of life and living cell.		X	X															X	X																	
2.learning structure and functions of biomolecules forming the life	X			X	X							X					X			X	X							X								
3.having knowledge about cell, organelle and membrane structures and their functions						X	X	X	X													X	X	X	X											
4.having a general information about cell metabolism										X	X															X	X									
5.learning cell cycle, meiosis and mitosis in detail												X																X								
6.have knowledge about the molecular and chromosomal basis of inheritance													X	X	X	X													X	X	X	X				
7.have an idea on evolution, populations and molecular biology.																																				
AVERAGE (OVER 100) SECTION 1: SECTION 2:																																				

2020-2021 Fall BIO301E OUTCOMES	1	2	3	4	5	6	7	8	9	1 0	1	1 2	1 3	1 4	1 5	1 6	1 7	1 8	1 9	2 0	2 1	2 2	2 3	2 4	2 5	2 6	2 7	2 8	2 9	3 0	3	3 2	3 3	3 4	3 5	3 6	3 7	3 8	3 9	4 0	4
1.learning basic properties of life and living cell.								X						X		X	X																								
2.learning structure and functions of biomolecules forming the life																X	X			X				X				X													
3.having knowledge about cell, organelle and membrane structures and their functions																		X			X																				
4.having a general information about cell metabolism															X										X			X													
5.learning cell cycle, meiosis and mitosis in detail																						X	X	X												X		X			
6.have knowledge about the molecular and chromosomal basis of inheritance	X																		X			X															X				
7.have an idea on evolution, populations and molecular biology.	X	X	X	X	X	X	X	X	X	X	X	X	X	X												X	X		X	X	X	X	X	X	X				X	X	X
AVERAGE (OVER 100) SECTION 1: SECTION 2:																																									

2019-2020 Spring BIO301E OUTCOMES	1	2	3	4	5	6	7	8
1.learning basic properties of life and living cell.		X	X					
2.learning structure and functions of biomolecules forming the life				X				
3.having knowledge about cell, organelle and membrane structures and their functions					X			
4.having a general information about cell metabolism						X		
5.learning cell cycle, meiosis and mitosis in detail							X	
6.have knowledge about the molecular and chromosomal basis of inheritance		X						X
7.have an idea on evolution, populations and molecular biology.	X							
AVERAGE (OVER 100) SECTION 1: SECTION 2:								

2019-2020 Fall BIO301E OUTCOMES	1	2	3	4	5	6	7	8	9	1 0	1	1 2	1 3	1 4	1 5	1 6	1 7	1 8	1 9	2 0	2 1	2 2	2 3	2 4	2 5	2 6	2 7	2 8	2 9	3 0	3 1
1.learning basic properties of life and living cell.								X																X							X
2.learning structure and functions of biomolecules forming the life						X				X	X			X						X				X				X			
3.having knowledge about cell, organelle and membrane structures and their functions			X	X		X						X	X		X	X	X	X	X			X	X		X	X			X		
4.having a general information about cell metabolism					X																X										
5.learning cell cycle, meiosis and mitosis in detail	X						X		X																		X			X	
6.have knowledge about the molecular and chromosomal basis of inheritance		X																													
7.have an idea on evolution, populations and molecular biology.																															
AVERAGE (OVER 100) SECTION 1: SECTION 2:																															

																			_											
2019-2020 Fall BIO301E OUTCOMES	1	2	3	4	5	6	7	8	9	1 0	1	1 2	1 3	1 4	1 5	1 6	1 7	1 8	1 9	2 0	2	2 2	2 3	2 4	2 5	2 6	2 7	2 8	2 9	3 0
1.learning basic properties of life and living cell.																														
2.learning structure and functions of biomolecules forming the life																														
3.having knowledge about cell, organelle and membrane structures and their functions																														
4.having a general information about cell metabolism																														
5.learning cell cycle, meiosis and mitosis in detail																														
6.have knowledge about the molecular and chromosomal basis of inheritance	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X												
7.have an idea on evolution, populations and molecular biology.																			X	X	X	X	X	X	X	X	X	X	X	X
AVERAGE (OVER 100) SECTION 1: SECTION 2:																														

2019-2020 Fall BIO301E OUTCOMES	1	2	3	4	5	6	7	8	9	1 0	1	1 2	1 3	1 4	1 5	1 6	1 7	1 8	1 9	2 0	2	2 2	2 3	2 4	2 5	2 6	2 7	2 8	2 9
1.learning basic properties of life and living cell.					X														X						X				
2.learning structure and functions of biomolecules forming the life										X	X														X				
3.having knowledge about cell, organelle and membrane structures and their functions									X	X				X				X											
4.having a general information about cell metabolism						X																							
5.learning cell cycle, meiosis and mitosis in detail							X	X									X												
6.have knowledge about the molecular and chromosomal basis of inheritance	X	X	X	X																X		X	X	X					
7.have an idea on evolution, populations and molecular biology.												X	X		X	X			X	X	X		X			X	X	X	X
AVERAGE (OVER 100) SECTION 1: SECTION 2:																													

2018-2019 Spring BIO301E OUTCOMES	1	2	3	4	5	6	7	8	9	1 0	1	1 2	1 3	1 4	1 5	1 6	1 7	1 8	1 9	2 0	2	2 2	2 3
1.learning basic properties of life and living cell.							X							X					X	X			
2.learning structure and functions of biomolecules forming the life	X		X				X								X			X	X	X	X		
3.having knowledge about cell, organelle and membrane structures and their functions	X	X				X		X	X	X		X	X								X	X	X
4.having a general information about cell metabolism					X						X												
5.learning cell cycle, meiosis and mitosis in detail				X												X	X						
6.have knowledge about the molecular and chromosomal basis of inheritance																							
7.have an idea on evolution, populations and molecular biology.																							
AVERAGE (OVER 100) SECTION 1: SECTION 2:																							

2018-2019 Spring BIO301E OUTCOMES	1	2	3	4	5	6	7	8	9	1 0	1	1 2	1 3	1 4	1 5	1 6	1 7	1 8	1 9
1.learning basic properties of life and living cell.																			
2.learning structure and functions of biomolecules forming the life	X																		
3.having knowledge about cell, organelle and membrane structures and their functions																			
4.having a general information about cell metabolism	X																		
5.learning cell cycle, meiosis and mitosis in detail		X																	
6.have knowledge about the molecular and chromosomal basis of inheritance							X	X	X	X	X	X	X	X	X	X	X		
7.have an idea on evolution, populations and molecular biology.			X	X	X	X												X	X
AVERAGE (OVER 100) SECTION 1: SECTION 2:																			

2018-2019 Spring BIO301E OUTCOMES	1	2	3	4	5	6	7	8	9	1 0	1	1 2	1 3	1 4	1 5	1 6	1 7	1 8	1 9	2 0	2 1	2 2	2 3	2 4	2 5	2 6	2 7	2 8
1.learning basic properties of life and living cell.								X									X											
2.learning structure and functions of biomolecules forming the life									X				X			X	X											
3.having knowledge about cell, organelle and membrane structures and their functions								X						X				X										
4.having a general information about cell metabolism							X				X	X				X												
5.learning cell cycle, meiosis and mitosis in detail						X				X																		
6.have knowledge about the molecular and chromosomal basis of inheritance					X										X						X							X
7.have an idea on evolution, populations and molecular biology.	X	X	X	X															X	X	X	X	X	X	X	X	X	
AVERAGE (OVER 100) SECTION 1: SECTION 2:																												

2018-2019 Fall BIO301E OUTCOMES	1	2	3	4	5	6	7	8	9	1 0	1	1 2	1 3	1 4	1 5	1 6	1 7	1 8	1 9	2 0	2	2 2	2 3	2 4	2 5	2 6
1.learning basic properties of life and living cell.			X	X	X	X		X																		X
2.learning structure and functions of biomolecules forming the life							X	X	X	X	X		X			X	X									
3.having knowledge about cell, organelle and membrane structures and their functions		X										X	X	X	X	X	X	X			X	X			X	
4.having a general information about cell metabolism	X																			X				X		
5.learning cell cycle, meiosis and mitosis in detail																			X							
6.have knowledge about the molecular and chromosomal basis of inheritance												X											X			
7.have an idea on evolution, populations and molecular biology.																										
AVERAGE (OVER 100) SECTION 1: SECTION 2:																										

2018-2019 Fall BIO301E OUTCOMES	1	2	3	4	5	6	7	8	9	1 0	1	1 2	1 3	1 4	1 5	1 6	1 7	1 8
1.learning basic properties of life and living cell.																		
2.learning structure and functions of biomolecules forming the life	X																	
3.having knowledge about cell, organelle and membrane structures and their functions																		
4.having a general information about cell metabolism	X																	
5.learning cell cycle, meiosis and mitosis in detail								X										
6.have knowledge about the molecular and chromosomal basis of inheritance		X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	
7.have an idea on evolution, populations and molecular biology.																		X
AVERAGE (OVER 100) SECTION 1: SECTION 2:																		

2018-2019 Fall BIO301E OUTCOMES	1	2	3	4	5	6	7	8	9	1 0	1	1 2	1 3	1 4	1 5	1 6	1 7	1 8	1 9	2 0	2	2 2	2 3	2 4	2 5	2 6	2 7	2 8	2 9	3 0	3 1	3 2	3 3	3 4
1.learning basic properties of life and living cell.																										X	X							
2.learning structure and functions of biomolecules forming the life												X											X		X									
3.having knowledge about cell, organelle and membrane structures and their functions												X		X	X					X	X	X					X				X			
4.having a general information about cell metabolism																			X					X	X									
5.learning cell cycle, meiosis and mitosis in detail																		X										X						
6.have knowledge about the molecular and chromosomal basis of inheritance							X						X			X	X												X	X		X		
7.have an idea on evolution, populations and molecular biology.	X	X	X	X	X	X	X	X	X	X	X																					X	X	X
AVERAGE (OVER 100) SECTION 1: SECTION 2:																																		

2017-2018 Spring BIO301E OUTCOMES	1	2	3	4	5	6	7	8	9	1 0	1	1 2	1 3	1 4	1 5	1 6
1.learning basic properties of life and living cell.						X								X		
2.learning structure and functions of biomolecules forming the life													X			
3.having knowledge about cell, organelle and membrane structures and their functions		X	X	X	X	X					X				X	
4.having a general information about cell metabolism												X				
5.learning cell cycle, meiosis and mitosis in detail	X						X		X	X						X
6.have knowledge about the molecular and chromosomal basis of inheritance								X								
7.have an idea on evolution, populations and molecular biology.																
AVERAGE (OVER 100) SECTION 1: SECTION 2:																

2017-2018 Spring BIO301E OUTCOMES	1	2	3	4	5	6	7	8	9	1 0	1	1 2	1 3	1 4	1 5	1 6	1 7	1 8
1.learning basic properties of life and living cell.																		
2.learning structure and functions of biomolecules forming the life	X																	
3.having knowledge about cell, organelle and membrane structures and their functions																		
4.having a general information about cell metabolism	X																	
5.learning cell cycle, meiosis and mitosis in detail																		
6.have knowledge about the molecular and chromosomal basis of inheritance				X	X		X	X	X	X	X	X	X	X	X	X	X	
7.have an idea on evolution, populations and molecular biology.		X	X	X		X												X
AVERAGE (OVER 100) SECTION 1: SECTION 2:																		

2017-2018 Spring BIO301E OUTCOMES	1	2	3	4	5	6	7	8	9	1 0	1	1 2	1 3	1 4	1 5	1 6	1 7	1 8	1 9	2 0	2	2 2	2 3	2 4	2 5	2 6	2 7	2 8	2 9	3 0
1.learning basic properties of life and living cell.																					X	X		X						
2.learning structure and functions of biomolecules forming the life						X										X				X										
3.having knowledge about cell, organelle and membrane structures and their functions										X	X				X						X				X					
4.having a general information about cell metabolism						X			X									X	X	X			X			X				
5.learning cell cycle, meiosis and mitosis in detail								X									X										X	X		
6.have knowledge about the molecular and chromosomal basis of inheritance					X		X																						X	X
7.have an idea on evolution, populations and molecular biology.	X	X	X	X								X	X	X										X						
AVERAGE (OVER 100) SECTION 1: SECTION 2:																														

2017-2018 Fall BIO301E OUTCOMES	1	2	3	4	5	6	7	8	9	1 0	1	1 2	1 3	1 4	1 5	1 6	1 7	1 8	1 9
1.learning basic properties of life and living cell.	X																	X	
2.learning structure and functions of biomolecules forming the life		X	X							X							X		
3.having knowledge about cell, organelle and membrane structures and their functions				X	X				X		X	X	X	X		X			
4.having a general information about cell metabolism							X	X		X					X				
5.learning cell cycle, meiosis and mitosis in detail						X													X
6.have knowledge about the molecular and chromosomal basis of inheritance																			
7.have an idea on evolution, populations and molecular biology.																			
AVERAGE (OVER 100) SECTION 1: SECTION 2:																			

2017-2018 Fall BIO301E OUTCOMES	1	2	3	4	5	6	7	8	9	1 0	1	1 2	1 3	1 4
1.learning basic properties of life and living cell.												_		
2.learning structure and functions of biomolecules forming the life														
3.having knowledge about cell, organelle and membrane structures and their functions														
4.having a general information about cell metabolism														
5.learning cell cycle, meiosis and mitosis in detail														
6.have knowledge about the molecular and chromosomal basis of inheritance	X	X	X	X	X	X	X	X	X	X	X	X		X
7.have an idea on evolution, populations and molecular biology.													X	
AVERAGE (OVER 100) SECTION 1: SECTION 2:														

2017-2018 Fall BIO301E OUTCOMES	1	2	3	4	5	6	7	8	9	1 0	1	1 2	1 3	1 4	1 5	1 6	1 7	1 8	1 9	2 0	2	2 2	2 3	2 4	2 5	2 6	2 7	2 8	2 9
1.learning basic properties of life and living cell.	X		X																										
2.learning structure and functions of biomolecules forming the life		X		X																									
3.having knowledge about cell, organelle and membrane structures and their functions		X			X																								
4.having a general information about cell metabolism																													
5.learning cell cycle, meiosis and mitosis in detail																													
6.have knowledge about the molecular and chromosomal basis of inheritance						X	X	X	X	X	X	X							X	X									
7.have an idea on evolution, populations and molecular biology.													X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
AVERAGE (OVER 100) SECTION 1: SECTION 2:																													