Sample Test Name: Bioscience



(These items were developed by teachers for the Technical Skills Assessment. Below is a sample item for each program standard.)

Ques	tion 1 of 13
Which	item is MOST important to wear when heating liquids in an electric water bath?
(A)	Gloves
○ B)	Lab coat
(C)	Goggles
O D)	Hair band
Ques	tion 2 of 13
What	does the term SOP mean?
(A)	Simplified Occupational Practice
○ B)	Standard Occupational Protocol
(C)	Structured Operations Protocol
(D)	Standard Operating Procedure
Ques	tion 3 of 13
What i	s the term for evaluating variation in data with the objective of forecasting future ?
(A)	Quality control
○ B)	Trend analysis
(C)	Quality assurance
(D)	Ethical management

A scientist is designing an experiment. What resource is the BEST to consult for detailed, current research about the subject?			
(A)	Articles in popular science magazines, such as Discover or Popular Science		
○ B)	Peer-review articles in journals, such as Nature or Science		
(C)	Scientific articles published by news organizations, such as CNN, ABC, or CNBC		
O D)	Summary articles from online publications, such as Wikipedia		
Ques	ition 5 of 13		
To who	om should all accidents be reported IMMEDIATELY?		
(A)	Quality auditor		
○ B)	Safety manager		
(C)	Supervisor		
O D)	Public Health Administration		
Question 6 of 13			
Which	characteristic would NOT be necessary in a model organism?		
() A)	Short generation time		
○ B)	Close resemblance to other organisms or systems		
(C)	Relatively easy to grow		
(D)	Long lifespan		
Ques	tion 7 of 13		
How is	s air vented in a laminar flow hood?		
() A)	Through the floor		
○ B)	Through the back		
(C)	To the top		
(D)	To the front		

Question 4 of 13

Que	Question 8 of 13			
What coli?	medium is used MOST OFTEN for culturing a wide variety of bacteria, including E.			
(A)	Tris buffer			
○ B)	Bovine serum albumin			
(C)	Molecular agar			
O D)	Nutrient agar			
Que	stion 9 of 13			
Which	Which indicator solution is used to test for the presence of proteins?			
(A)	Benedict			
○ B)	Congo red			
(C)	Biuret			
O D)	DPA			
Que	stion 10 of 13			
	Which mass of calcium chloride ($CaCl_2$) is needed to make 100mL solution into a 1.5M solution? ($CaCl_2$ = 110.98 g/mol)			
(A)	11098g			
○B)	16.6g			
(C)	166.5g			
O D)	150g			
Question 11 of 13				
Which	n resource is NOT an online database used to analyze DNA sequences?			
(A)	DNA Subway			
○ B)	GenBank			
(C)	PubMed			
(D)	NCBI			

Question 12 of 13			
How many cycles are COMMONLY programmed into a thermal cycler?			
A) 30,000			
○ B) 300			
C) 30			
○ D) 3			
Question 13 of 13			
How many microliters are in 1.21 milliliters?			
A) 1210uL			
B) 0.00121uL			
OC) 121uL			
D) 12.1uL			

Bioscience Sample Test Answer Key

Question	Answer			
1.	С			
 2. 3. 4. 6. 7. 	D			
3.	В			
4.	В			
5.	С			
6.	D			
7.	D			
8. 9.	D			
9.	С			
10.	В			
11.	C C			
12.	С			
13.	Α			