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
O 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

Question 4 of 13				
	What resource is the BEST to consult for detailed, current research about the subject if a scientist is designing an experiment?			
O A)	A) Articles in popular science magazines, such as Discover or Popular Science			
\bigcirc B	Peer-review articles in journals, such as Nature or Science			
O C	Scientific articles published by news organizations, such as CNN, ABC, or CNBC			
	Summary articles from online publications, such as Wikipedia			
Question 5 of 13				
To w	To whom should all accidents be reported IMMEDIATELY?			
O A)	Quality auditor			
O B	Safety manager			
O C	Supervisor			
O D)	Public Health Administration			
Question 6 of 13				
Which characteristic would NOT be necessary in a model organism?				
O A)	Short generation time			
O B	Close resemblance to other organisms or systems			
O C	Relatively easy to grow			
O D)	Long lifespan			
Question 7 of 13				
How	is air vented in a laminar flow hood?			
O A)	Through the floor			
○ B)	Through the back			
O C	To the top			
OD	To the front			

	Ques			
	What medium is used MOST OFTEN for culturing a wide variety of bacteria, including E. coli?			
	(A)	Tris buffer		
	○ B)	Bovine serum albumin		
	() C)	Molecular agar		
	(D)	Nutrient agar		
	Question 9 of 13			
	Which	indicator solution is used to test for the presence of proteins?		
	(A)	Benedict		
	○ B)	Congo red		
	(C)	Biuret		
	(D)	DPA		
Question 10 of 13		tion 10 of 13		
		mass of calcium chloride (CaCl ₂) is needed to make 100mL solution into a 1.5M n? (CaCl ₂ = 110.98 g/mol)		
	(A)	11098g		
	(A) (B)	11098g 16.6g		
		-		
	○B)	16.6g		
	□ B)□ C)□ D)	16.6g 166.5g		
	B) C) D)	16.6g 166.5g 150g		
	B) C) D)	16.6g 166.5g 150g tion 11 of 13		
	B) C) D) Ques	16.6g 166.5g 150g tion 11 of 13 resource is NOT an online database used to analyze DNA sequences?		
	B) C) D) Ques Which	16.6g 166.5g 150g tion 11 of 13 resource is NOT an online database used to analyze DNA sequences? DNA Subway		

Question 12 of 13		
How many cycles are COMMONLY programmed into a thermal cycler?		
A) 30,000		
B) 300		
C) 30		
OD) 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.	D			
3.	В			
4.	В			
1. 2. 3. 4. 5.	С			
6.	D			
6. 7. 8. 9.	D			
8.	D			
9.	С			
10.	В			
11. 12.	С			
	С			
13.	Α			