	Final Exam:	First term	Course Code:	B2-23	Percentage
Committy of Salar Cary	Academic Year:	208-2019	Academic Program:	Master	N. of Exam Paper
University of Sadat City	Level:	Master	Department	Microbial Biotechnology	Date of exam
Sadat City	Course Name:	Special studies (Practical approaches in PCR, C- 101)	Total score:	60	Time allowed:



60%

One

3hours

In PCR. C-101)	MINISTER AND CONTRACT
Instructions of Exam:	280
1. Answer the obligatory questions.	
2. Use the blue pen and pencil in answer sheet	
 Allow one sheet answer for every student Is not allowed to borrow the tools (pen, pencils, drawing tools, calcula 	itor etc)
5. Is not allowed to use the cell phone or any of its application during the	
First question: question	Total score (15)
1- What is the DNA-based marker and its adva	antages? (5 marks)
2- Write a short report about one of PCR based	d markers. (10 marks)
Second question:	(15 marks)
To minimize the risk of contamination, there	e are general considerations
and precautions must be taken in PCR laborat	ory, explain
Third question	Total score (15)
A- Mark true (T) or false (F) for the following s	statements. (7.5 marks)
3- The primer in living cells is RNA as the prin	
4-PCR provides a method for obtaining large	ge quantity of specific DNA
sequences from degraded DNA.	()
5- Humans cannot eat DNA.	()
6- There is one conformation of DNA	()
7- Danger of contamination comes from three s	sources ()
B- Complete the following statements	(7.5 marks)
1- The coaccept of the PCR was first introduced	d by
2- The melting temperature of this primer (3'	
AAC CCT' is while the	
Fourth question	Total score (15)
	(5 marks each)
A- Compare between:	(S mains cach)

- RT-PCR and multiplex PCR
- Primers characters used for Nested PCR and RAPD
- PCR and thermal cycler

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