
 University of Sadat City	Final Exam:		Course Code:	B7-46	Percentage	80	 GEBRI
	Academic Year:	2018-2019	Academic Program:	Master	N. of Exam Paper	1	
	Level:	1 <sup>st</sup> term	Department:	Molecular Diagnostics	Date:	20/1/2019	
	Course Name:	Seminar	Total score:	80	Time allowed:	3hr	

### Instructions of Exam:

1. Answer the obligatory questions.
2. Use the blue pen and pencil in answer sheet
3. Allow one sheet answer for every student
4. Is not allowed to borrow the tools (pen, pencils, drawing tools, calculator ...etc)
5. Is not allowed to use the cell phone or any of its application during the time of exam

هذه ٧.٢٣

### 1<sup>st</sup> question: (Total Score: 10 points)

Write briefly about causes and risk factors of HCC. (10 points)

### 2<sup>nd</sup> question: (Total Score: 40 points)

Explain the following regarding HCC:

- Telomerase promotor mutations (10 points)
- P53 Pathway mutation (10 points)
- Copy number variation and gene rearrangements (10 points)
- Epigenetic modifications (10 points)

### 3<sup>rd</sup> question: (Total Score: 10 points)

Give a brief account about Next generation sequencing.

### 4<sup>th</sup> question: (Total Score: 20 points)

Discuss the potential uses of NGS in clinical Practice, including HCC.

With best wishes

Professor of Course	Dr.Randa Talaat	Course coordinator	Dr.Randa Talaat
Staff Course	Dr.Randa Talaat, Dr. Ahmed Deif	Department Head	Dr.Randa Talaat
Exam group	Dr.Randa Talaat, Dr. Ahmed Deif		

نموذج رقم: SQ0000000F101002  
الإصدار (٠/٢) ٢٠١٨/٠١/١٤