

University of Palestine  
Faculty of Applied Engineering and Urban Planning

Course Name				Course No.	SWE 4313
Academic Year	2018/2019	Semester	2 <sup>nd</sup>	Exam Type	2ndMidterm
Exam Date	15/04/2019		Exam Time	9am – 11am	

اسم الطالب ( بالعربي ): _____		الرقم الجامعي: _____	
اسم المدرس: د. عبد الحميد زغير	رقم الشعبة: 101	وقت المحاضرة: _____	الرقم المتسلسل: _____

**Important Instructions**

- ***This is a closed-book exam; all related material must be placed away from your desk.***
- **Cell phone use is prohibited for any purpose: Your cell phone must be turned off and placed off of the desk. Cell phones may not be accessed during the exam. Failure to comply may be treated as a violation of the Honor Code.**
- **Headphones of any kind are not permitted.**
- **This exam is 60 minutes long.**
- ***Make sure that you have 4 pages including this page.***
- ***This exam has 10 essay questions. Read each question carefully before answering.***
- **Calculators can be used but cannot be shared.**
- ***When you finish, you must:***
  - ***Check that you have written your information in the spaces provided.***
  - ***Give the exam package (all papers) to the proctor before you leave.***

**For Teacher's Use Only / For Proctor's Remarks**

QN	KPI/ILO	SO	DL	Mark	Weight
1	B1	g	4		10
2	B2	j	4		10
3	B4	c	3		5
4	B6	b	3		5
<b>Total</b>					<b>30</b>


**Q1**

<u>For each of the following statements state whether it is true or false:</u>	T	F
1. System reliability is more critical than availability.		
2. Program defects may be in rarely executed sections of the code. Removing these does not affect the perceived reliability.		
3. Evolution it does what the customer wants.		
4. Software control is much harder than Hardware control to any system.		
5. Spiral Model has user involvement in all its phases.		
6. Verification is concerned with building the product the customer wants. It attempts to answer the question "Are we building the right product?"		
7. In waterfall model less time is spent on documenting and more time is given for designing.		
8. In Iterative Model technology is understood and is not dynamic.		
9. In waterfall model the project is short.		
10. Spiral model is a combination of iterative development process model and waterfall development model .		

**Second Question**

<u>Choose the right answer for each of the following:</u>			
1. A characteristic of a software system that can lead to a system error is known as?			
a. Human error or mistake	b. System fault	c. System error	d. System failure
2. An erroneous system state that can lead to system behavior that is unexpected by system users is known as?			
a. Human error or mistake	b. System fault	c. System error	d. System failure
3. An event that occurs at some point in time when the system does not deliver a service as expected by its users is called _____.			
a. Human error or mistake	b. System fault	c. System error	d. System failure
4. At which stage of SDLC take account of planning for the quality assurance requirements and identification of the risks associated with the project?			
a. Deployment	b. Designing	c. Analysis	d. Testing
5. Which of the following examples does not involve dependability engineering ?			
a. Medical Systems	b. Power Systems	c. Library Management	d. Telecommunications
6. What are the qualities of a good software?			
a. Portability	b. Reusability	c. Inter-operability	d. All
7. How is reliability and failure intensity related to each other?			

a.direct relation	b. inverse relation	c. no relation	d. none of the mentioned
<b>8. How is Incremental Model different from Spiral Model?</b>			
a. Progress can be measured for Incremental Model		c. Users can see the system early in Incremental Model	
b. Changing requirements can be accommodated in Incremental Model		d. All of the mentioned	
9. _____ The ability of a system to continue to deliver its services to users in the face of accidental attack.			
a. Maintainability	b. Reparability	c. Error tolerance	d. Survivability
<b>10. The system is designed so that some classes of hazard simply cannot arise:</b>			
a. Hazard avoidance	b. Hazard detection	b, c	d. Damage limitation

### Third Question (10)

oftware specification or Requirements Engineering process have phases, What this phases? (5)

**B. What are the disadvantages of each of the following: (5)**

1- Waterfall Model

**2- Iterative and incremental Model**

**3- Spiral Model**

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**Good Luck**

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