

الإسم ..... الرقم .....

أجب عن جميع الأسئلة

\*ورقة الإمتحان تشتمل على عدد 4 صفحات\*

### Question 1: State whether the given statement is true or false (10marks)

- 1- Good software should deliver the required functionality and performance to the user and should be maintainable, dependable, and usable. ( )
- 2- Software specification is designed and programmed. ( )
- 3- The software engineering methods and tools used depend on the type of application being developed. ( )
- 4- A software process model is an abstract representation of methods. ( )
- 5- Verification and validation (V & V) is intended to show that a system conforms to its specification and meets the requirements of the system customer. ( )
- 6- A functional requirement is constraints on the services or functions offered by the system such as timing constraints, constraints on the development process, standards. ( )
- 7- Stories and scenarios are a description of how a system may be used for a particular task. ( )
- 8- Use case diagrams, which show the activities involved in a process or in data processing. ( )
- 9- Context models are used to illustrate the operational context of a system - they show what lies outside the system boundaries. ( )
- 10- Software is an engineering discipline that is concerned with all aspects of software production. ( )

### Question 2: Complete the following sentences with suitable words (8marks)

distinct	plan-driven	development	System boundaries	System engineering	skills	requirements discovery	software evolution
internal	people	software validation	external	communicate	experience	other systems	understand

- 1- Fundamental software engineering activities is Software specification, software development ..... And .....
- 2- .....is concerned with all aspects of computer-based systems development including hardware, software, and process engineering.
- 3- The waterfall model is Separate and ..... phases of specification and .....
- 4- A.....approach to software engineering is based around separate development stages with the outputs to be produced at each of these stages planned in advance.
- 5- Requirements elicitation Sometimes called .....
- 6- System modelling helps the analyst to ..... the functionality of the system and models are used to ..... With customers.
- 7- State diagrams, which show how the system reacts to ..... And .....events.
- 8- ..... are established to define what is inside and what is outside the system.
- 9- Actors in a use case may be..... or .....
- 10- Software evolution processes depend on .....

**Question 3: Put a circle around the letter of the correct answer (10 marks)**

- 1- Extreme Programming (XP) takes an ..... approach to iterative development.  
a- extreme            b-Agile            c- plan            d- Both a,b are correct
- 2- The four basic process activities of specification, development, validation and.....  
a- Waterfall            b- evolution            c- software            d- Scenarios
- 3- Agile methods usually use incremental requirements engineering and may express requirements as.....  
a- method            b- validation            c- user stories            d-programmer
- 4- Functional system requirements should describe the system services in.....  
a- details            b- software            c- data            d-application
- 5- Legacy system categories is .....  
a- Low quality            b- low business value            c- High-quality            d-all correct

**Question 4: Answer the following questions (12 marks)**

1- List three of good software attributes?

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2- List three of application types?

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3- List three of principles of agile methods?

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4- List three of Stakeholder types?

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5-what are the Legacy systems? And explain components?

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