

Biomedical Engineering

**Project Management**  
Course Code: UNR431  
Level: 400  
Allowed Time: 1hour  
/11/2018  
First 2018 /2019  
Midterm Exam [20 Marks]



Faculty Of Engineering

Student Name **(in Arabic)**: ..... Program: ..... Level: .....

**FIVE questions are in TWO pages.**

**Answer ALL the questions.**

**Don't use pencil.**

**Q.1) [4 Marks]**

**Draw a Model for an optimum Product/Service Success Criteria.**

**Q.2) [4 Marks]**

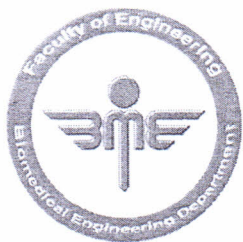
**Benchmarking is a technique used in—**

- a. Inspections
- b. Root cause analysis
- c. Plan quality management
- d. Perform quality control

**Q.3) [4 Marks]**

Recognizing operations management is different than project management, as the project manager for development new line of MRI, avoiding the need to use costly electricity, you realize best practice is to:

- a. Document the operational managers' influence either positive or negative in the stakeholder register
- b. Offer to include the operational managers in all project phases
- c. Recognize that the operational managers are only involved once they have ongoing responsibility for the product, service, or result
- d. Realize the operations managers have key responsibilities on the Portfolio Review Board



Biomedical Engineering

## Project Management

Course Code: UNR431

Level: 400

Allowed Time: 1hour

/11/2018

First 2018 /2019

Midterm Exam [20 Marks]



Faculty Of Engineering

### Q.4) [4 Marks]

Assume you are managing a project to implement an electronic medical record system in your ophthalmologist's office. You have been working to identify your stakeholders to then make sure everyone is committed to it as some people have been working in this office for more than 20 years and are comfortable with the manual approach. At this point, you have documented assessment information, which includes:

- Role in the project
- Whether the stakeholder is a supporter, is neutral, or is resistant
- Potential influence in the project
- Organization position

.....

.....

.....

.....

.....

### Q.5) [4 Marks]

Determine the critical path of the **Project: Development of new non-invasive glucose monitoring device**, using the information of the table below, assuming that all tasks will start as soon as possible.

Activity	Description	Depen- dency	Durati- on (Day)
A	Initiate the project and determine objectives	-	3
B	Target customers and marketing tool	-	2
C	Select the team	B	6
D	Discuss the alternative ideas of design	A	1
E	Choose the appropriate/optimum idea	B	1
F	Design the full identity of the project	C	8
G	Select the suitable portal of the project	E	4
H	Collect information, and materials	D	18
I	Execute the project	D	25
J	Monitor and control the project	I	22
K	Test the project outcomes	H	15
L	Prepare the appropriate prototype	G,F	7
M	Package, and deliver (close the project)	L,K,J	5