



Biomedical Engineering

Project Management
Course Code: UNR431
Level: 400
Allowed Time: 1 hour
/11/2019
First 2019 /2020
Midterm Exam [20 Marks]



Faculty Of Engineering

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

SIX questions are in TWO pages.

Answer ALL the questions.

Don't use pencil.

Q.1) [3 Marks]

Suggest six evaluating criteria matrix to help you selecting from potential competing projects.

Q.2) [3 Marks]

Collecting requirements is critical in project scope management as it becomes the foundation for the project's

- a. Stakeholders
- b. WBS
- c. Schedule
- d. Scope change control system

Q.3) [3 Marks]

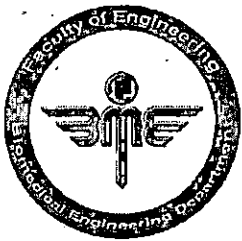
Any step recommended to bring expected future performance in line with the project management plan is called:

- a. Performance evaluation
- b. Corrective action
- c. Preventive action
- d. Defect repair

Q.4) [3 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:

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



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Q.5) [3 Marks]

The first step in collecting requirements on any project, large or small, is to:

- Talk with the project stakeholders through interviews
- Review the scope management plan
- Conduct facilitated workshops with stakeholders
- Prepare a requirements document

Q.6) [5 Marks]

Determine the critical path of the Project: Development of new surgical aspirator, 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	-	4
B	Target customers and marketing tool	A	2
C	Select the team	B	6
D	Discuss the alternative ideas of design	A	3
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	22
I	Execute the project	D	25
J	Monitor and control the project	I	23
K	Test the project outcomes	H	16
L	Prepare the appropriate prototype	G,F	9
M	Package, and deliver (close the project)	L,K,J	4

All Best Wishes, Dr. Nabil Shalaby