Department of Electrical Engineering

Engineering Management and Economics Assignment

Spring-2019-20, Dated 13-4-2020

Instr: Dr. Jehanzeb Khan Time= 5 Days Marks 30 **NAME: FAWAD AHMAD ID: 13204** Q.1: 1. Engineering Management is: A. An art ✓ B. Both science and art C. A science D. Neither art nor science 2. Engineers can become good managers only through ____ A. Experience B. Taking master degree in management **✓** C. Effective career planning D. Trainings 3. When engineer enters management, what is the most likely problem he finds difficult to acquire? A. Learning to trust others B. Learning how to work through others C. Learning how to take satisfaction in the work of others ✓ D. All of the above 4. Strategic planning is undertaken in which management level?

A. Lower management level

B. Middle management level

C. Top management level D. Lowest management level 5. What management functions refers to the process of anticipating problems, analyzing them, estimating their likely impact and determining actions that will lead to the desired outcomes and goals? **✓** Planning B. Leading C. Controlling D. Organizing 6. What refers to the establishing interrelationships between people and things in such a way that human and materials resources are effectively focused toward achieving the goal of the company? A. Planning B. Leading C. Controlling ✓ D. Organizing 7. Actual performance normally is the same as the original plan and therefore it is necessary to check for deviation and to take corrective action. This action refers to what management function? A. Organizing B. Planning **✓ C. Controlling** D. Staffing 8. Strategic planning is undertaken in which management level? A. Lower management level B. Middle management level ✓ C. Top management level D. Lowest management level 9. For a project manager to achieve his given set of goals through other people, he

must have a good _____.

B. Communication skills	
C. Leadership	
D. Decision- making skills	
10. An engineer is required to finish a certain engineering job in spectaid to be if he finished the job within the required spectain engineering in the spectage of th	
A. Efficient	
✓ B. Effective	
C. Reliable	
D. Qualified	
11. If an engineer provides less input (labor and materials) to his procome out with the same output, he is said to be more	ject and still
A. Managerial skill	
B. Economical	
C. Effective	
✓ D. Efficient	
Q.2 a) A Manager's job is complex and multidimensional and rec	quires a range of
skills. What are those skills, discuss in detail.	5 Marks
b) Briefly explain characteristics of authority.	5 Marks
Q.3: a) How does a project emerge? Describe its characteristics.	5 Marks
b) An international Conference is planned in Iqra national Ur	niversity. The

activities listed down with their predecessors and time taken. Prepare a

5 Marks

network diagram and determine the critical path.

✓ Interpersonal skills

Activity	Precedence	Time
A Date, topics & Speaker	-	5 days
B Prepare logo & brochures	-	1 day
C Send letters to speakers	В	2 days
D Get confirmation from Speakers	C	5 days
E Send letters to participants	C,D	2 days
F Obtain travel plan from speakers	D	2 days
G Arrange Accommodation	F	1 day
H Get handouts from speakers	F	4 days
I Finalize Registration	G,H	10 days
J Setting of Hall	I	1 day
K Conduct of Program	J	1 day

NAME: FAWAD AHMAD (13204)

SOLUTION OF THE PAPER/ANSWER SHEET

Q2 (Part a)

A manager's Job is Complex and multidimensional and revuises a range of Skills what are those Skills discuss in defail?

Answer:-

A manager's Job is Complex and

multidimensional and as well shall see

through this book revuises a range of skills.

Although some management theorists

Propose a long of skills the necessary skills

Jos managing a department or an organaz
ation con be summarized in three categories.

Conceptual, Human, and technical.

- Types of management skill:
 According to American Social and

 organizational psychologist Robert Katz, the

 three basic types of management skills

 include.
- Technical Stills:Technical Still involve Still
 that gives the manager the Ability and
 Enowledge to use a variety of techniques.

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to Acheive their objectives. These skills not only involve operating machine and software Production tools and Pieces of Excuipment but also skills needed to boost sales, clesign diffrent types of Product and Service and the Service and the Products.

- (2) Conceptual Skills:These involve the Skill manager

 Present in term of knowledge and ability

 Jor abstract thinking and Jornulating ideas.

 The manager is able to See entire

 Concept, Analyze and diagnose a Problem and

 find Creative Solution.
- 3 Human or Inter Personal Stills:The human or the inter Personal siciles are the Skills that present the manager Mility to interact work or relate expectively with People. These Skills enable to manager to make use of human potential in the Company and motivate the employes for better results.

Oz Part (B)
Briezly explain Charactiristic of Authority?

Answer:
Meaning of Authority:-

Authority is the formed right to do work. Henry Favol defined the authority as "right to give order and Power to exact obedience. Authority gives the management the Power to enforce obedience. It is Power to give order and make sure that these order are obedien

De Some of the important Charactivistic of

Authority are:

Description of Dominance & An informal

Power @ Rationality @ Accountability.

It determines the effectiveness of Authority.

Hence it is the hall mark of the concept of Authority According to Robert Dahl" A Command B and B feels A hers Derfect right to do so and to which he has complete obligation to obey.

B) Dominance:

Authority is the capacity of the individual to Command others. An individual or a group which Possesses authority enercise dominance over other individual. Authority is a Command of Superior to an injerior.

An informal Powers
It is the not a formal power

ces it lowers characteristic which are main

ces it lower characteristic which are main

features of Power. According to Foled rick

"Puthority is not power, Something that

"Authority is not power, Something that

Accompanies Power of is the ruality in

Accompanies Power of the ruality in

men and things which adds to their power.

Rationality:

This is the main Charactivistic of

This is the main Charactivistic of

Authority. In the word of Fried rick. The

Who has Authority Possesses Something that

g would clescribe the Capacity for reasoned

elaboration for giving Convincing reason for

What he does or proposes to have

other to do.

Evidently the basis of Authority

is logic or reason.

@ Accountability:

The individual or a group of individual who Possess Authority are responsible to some higher Authority. In a democratic System Accountability is the most significant Charactiristic of Authority.

Q3 (Post A):- How does a Project Emerge?

Describe its characteristics?

Answer: A Project is a unique Transient endeavour uncles taken to acheive Planned objectives which uncles taken to acheive Planned objectives which could be defined in terms of output, outcomes could be defined in terms of output, outcomes or benefits. A Project is usually deemed to be success it if acheive the objective According to their Acceptance Criteria within the an Agreed time scale and budget, Time, Cost, and greatly are the building blocks of every Project.

* Time: Sheduling is a collection of a telehnique used to deelope and Present Shedules that Show when work will be Performed.

(Charactivistic of Project:

Well defined objective

- Uniqueness (Non Routine Activity)
- Complexity (Demand Team Work)
 Life Cycle
- > Risk uncertainty
- > Change (In Response to environment) Non Recurring Duration of Activities uncertain
- Completion Deadline.
- -> Involves Resources optimality
- > multidiciplinary and interdependencies.
- > Fox costing Definit time limit. Team work.
- -> Conflict for resources.
- > A Separate disposable team performance measurement.

Q3 (Part B)

Answer :-

