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

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Answer to question No. (1) 1) B 2) C 3) D 4) C 5) A 6) D 7) C 8) C 9) A 10) B 11) D Answer to question No 2(a). A manager should have these 4 skills:-1. Conceptual skill. 2 Human Skill. 3. Technical skill. 4. Diagnostic skill. (1) Conceptual skill: It is the ability to see the afganization as a whele and the relationship among its parts. conceptual skills involves the manager's thinking, information - processing and planning abilities. Knowing where one's department fits into the total aganization and how the appanization fits into the industry, the community, and the broader business and social environment. The ability to think strategically (broad long-term-view) Conceptual skill is very impertant for managers at the top, e.g., Nicrosoft, reflects the conceptual skill of its chairman, Bill Chates. Cremeral business joals are clearly stated and communicated through out the company, contributing to Microsoft's leadership reputation and billion-dollar sellieux rarenues Grater spread his concept for minosoft by delegating to a cadle of strong managers. Scott oki, service vie-president for sales and marketing, pointed out "Each part of the company has a life of it's ewn new, but Bill is the flue that helds it together. many of the reponsibilities of top managers - such as decision making, resource allocation and innovation - require a broad view.

and to werk effectively as a group member. The ability to werk with and through other -The ability to industry as a group member. The ability to motivate, werdinate, lead, communicate, and resalve anthirty to motivate, werdinate, lead, communicate, and resalve Allow subardinates to express themselves without fear of hidicule and choused subardinates to expless themself Refies on the quality of it's people for it's success. Aikes other people and is liked by others. Have joint judgement for devisions such as histing and setting company bulkes. - the maken employees fell valued and inspired and promote close working relationships that are fun Effective managers are cheer leaders facilitaters, coaches and nuctures - Excellent managers dont take people for granted. - reasures employees satisfaction using termal questionnaire - Thies to increase the frequency, quality and degree of intermative news (news letter etc) Cretting things done through people." 3 Technical skill- 9s the understanding of and propriency (skill, ability, takent) in the beckermance of specific tasks. - Includes mastery of methods, techniques and equipment invelved in specific banchism such as engineering, manufacturing, finance ferecasting and marketing skills. Specialized knowledge, analytical ability, competent use of took and techniques to salve problems in specific discipline. Daynostic skill;-Managers ability to visualize the most appropriate Diagnose and analyze a problem and then developing a response. Far enample high turnover possible reason - dissatisfaction solution. with bay or not favorable environment or poor interpersonal skill, --- find salution by interviewing of employees.

higher rate in favorable situation - sales increases at higher rate than anticipated causes, low phile or greater demand than predicted er high price by a competiter---Physice to question 2 CD:-Characteristics of authority: Authority is vested in erganizational position not people. Because of the position that manager helds. Authenity is anopted by employees. Authenity flows top down through the aganization's hierarchy, employees comply because they believe that managers have legitimate sight to issue orders. Puthetity thous down the vertical hierarchy: Positions at the top of the hierarchy are vested with more formal authority than are positions at the bottom The task bility: Is the plip side of authority coin It is duty to beyorm the tark et artivity an employee has been assigned when managers have responsibility for tark outcome but little authority, the job is bassible but difficult. But when managery have authority Exceeding responsibility, they may become typents. - Accountability: Is the mechanism through which authority and responsibility are brought into alignment. It means that papele with authority and responsibility are subject to reporting and justifying task outcome to those above them in the chain of command. Employees must be aware that they are ausuntable for a task and alleft the responsibility and authority ter performing it Dels anon of autheritz: Is a process by which a manager assigns a portion of his total werk load to other. Sub ardinates help care the managers' Burdon. So some instances, a suberdinate may have mere expectise than a manager. It also help develop subordinate. Deligation of authority involves three steps, assigning reponsibility giving the authority to do the job and establishing subcidinates ausuntability. Ploblems with delegation are that subordinate well do too well and pose threat to managers advancement, no recald for accepting additional responsibility, other view is that subardinates satisfactery performance is not a threat but an auomplishment both Csuberdinate, did the job, manager trained him) by

- Decentralization - The process of systematically delegating of power and authority throughout the organization to middle and (4) delegated as fax down the chain of command as passible The greater the complexity and uncertainity of the environment, the greater is the tendency to decentralize successful organizations are usually desented yed - Centralization. The process of systematically retaining power and authority in the hands of higher-laced managers Onision making power and authority are with top managers In times of crises of risk of erganization failure, authority may be centralized at the Answer to question 3 (a) :-A project is emerged by an idea:-Oliven by a need. - A desire for innovation and creativity. An addition to a school of thought or a body of All projects have characteristics in common that set them about from other operations.... characteristics of a phoject :-6 A project must have a defined start and stop. (3 A well defined time frame for competition. - A boint where it starts a time zero' - A boint where it finishes delivery - The implication is a time scale. 3 Uniqueness; - A unique need distinguished from day to day operation. - BUT potential repetition not barred subject to consideration of special aroumstances. - Can include contingency planning where start date is unknown.

9 Invaluement of several people: - The project teams Those affected by the project Cey new plant operators) Provision of specific shills and approaches B himited resources - People, materials, money and time all considered. - Potential trade-off between these bassible - Potential of technology almost limitless. @ sequencing of activities:-- Interdependance of some activities - step by step plagters. - oppertunity for acclepping. - Near for careful planning of serstep order.

Answer to question 3(b): A5 Gr, Bi Fz C2 Paths:-6 B+(+D+F+G+I+J+K 1+2+5+2+1+10+1+1223 @ B>(>D>F>H>I>J>K 1+2+5+2+4+10+1+1=26 Hence clibical path is B-> C-> D-> F-> H-> I- J-K