**Group A**

**Long Answer Questions (Attempt any two) (2x10=20)**

1. **What is software project management? How software project differs from other projects?**

**Answer:**

**Software = Program + related documentation**

**Project = A project is a combination of interrelated activities to achieve a specific objective within a schedule, budget, and quality. It involves the coordination of group activity, wherein the manager plans, organizes, staffs, directs, and controls to achieve an objective, with constraints on time, cost, and performance of the end product.**

**Management: It is an optimal way to accomplish tasks and achieve goals, using Planning, organizing), Staffing, Directing, Co-ordinating, Reporting, and Budgeting (POSDCORB) functions or processes.**

**Project management: Combination of project and management. Project Management ensures software development done according to organization’s constraints: policies, goals, and requirements.**

**Software Project Management: Software Project Management (SPM) → It is a process of managing, allocating and timing resources to develop computer software that meets requirements.**

**SPM Tasks are:**

* + - * **Problem Identification**
      * **Problem Definition**
      * **Project Planning (How we do it)**
      * **Project Organization (Arrange activity/instructions to staff)**
      * **Resource Allocation**
      * **Project Scheduling (How to link activities/Control Activities)**
      * **Tracking, Reporting and Controlling (How to communicate the stake holder, Check project and process, Control activities, always come up with new ideas)**
      * **Project Termination**

**Effective Project Management**

**4 P**

* + **People**
  + **Product** 
    - * **Before a software project is planned, the product objectives and scope should be established, technical and management constraints should be identified.**
  + **Process** 
    - * **Here the important thing is to select an appropriate process model to develop the software.**
  + **Project**

**Software Projects vs other Type of Projects**

* + **Invisibility (intangible)**
  + **Complexity**
  + **Conformity(similarity)**
  + **Flexibility**
  + **Software projects require logic and logical works.**
  + **The complexity of a software project is unknown at the beginning.**
  + **The progress is not visible unless one of the project modules is completed at least.**
  + **Software projects are more flexible than other projects.**
  + **The resources required and the cost is also low when compared to the other types of project.**
  + **The progress report will not be visible if any of the modules is finished at least.**