

SUBJECT: PROJECT MANAGEMENT

Day: Tuesday  
Date: 21/05/2019

Time: 02.30 pm to 05.30 pm  
Max. Marks: 60

S-2019-1356

**N.B:**

- 1) **Q. No. 1 is COMPULSORY.** Out of remaining questions attempt **ANY FOUR.**
- 2) Figures to the right indicate **FULL** marks.

- Q.1 a)** Draw a project schedule network diagram and mark the critical path from the following project data: (10)  
A Water tank is to be commissioned for a locality where there is water scarcity. The project involves the following activities:
- i) 'Design Tank' (10 days) can start right away.
  - ii) 'Construct Tank Foundation' (25 days) and 'Select Tank Parts Supplier' (8 days) can start as soon as 'Design Tank' is finished.
  - iii) 'Prepare and Assemble Tank Components' (10 days) can start as soon as 'Select Tank Parts Supplier' is finished.
  - iv) 'Deliver Tank to Jobsite' (4 days) can start as soon as 'Prepare and Assemble Tank Components' is finished.
  - v) 'Prepare Installation Drawings' (3 days) can start as soon as 'Select Tank Parts Supplier' is finished.
  - vi) 'Install Tank' (15 days) can start as soon as 'Deliver Tank to Jobsite', 'Prepare Installation drawings' and 'Construct Tank Foundation' are all finished.
  - vii) 'Test and Commission Tank' (4 days) can start as soon as 'Install Tank' is finished.
  - viii) After 'Test and Commission Tank' is finished project is complete.
- b)** Calculate ES, EF, LS and LF for each activity using Forward and Backward Pass Techniques. (10)
- Q.2** Draw the ITTOs table and DFD for 'Develop Schedule' process. (10)
- Q.3** List out the seven Quality Control Tools in Project Management, giving a brief description of each. (10)
- Q.4** "Risk Management is often overlooked in projects, but its aim is to help improve project success". Discuss this statement. Give examples. (10)
- Q.5** Who is a stakeholder in a project? What information, you as a Project Manager, will collect about various stakeholders in a project. (10)
- Q.6** Write short notes on:
- a) EEFs and OPAs (05)
  - b) 'Perform Integrated Change Control' Process (05)