0505M139   Candidate's Seat No :_____

B.Arch. (Sem.-VII) Examination
AR 702
Project Management

Time : 2 Hours]   May-2017   [Max. Marks : 50

Instructions: 1. Figure to the right indicates full marks.
2. Assume data, your own logic and thumb rule where ever required.

Q-1   **(a) Define : (Any Five)**   (5)
      (i)   Rent,   (ii)   Dummy   (iii)   Critical Path
      (iv)   Tail Event,   (V) Successor activity (vi)   Activity.

   (b) Separate out activities and events from following list.   (5)
      1) Prepare budget for a project.
      2) Material received at site.
      3) Collect data and prepare check list.
      4) Test pipe line.
      5) Assemble parts of the machine.
      6) Install pump.
      7) Payment made.
      8) Show room inaugurated.
      9) Purchase of New materials.
      10) Display of materials in show room.

Q-2   **State True or False.**   (10)
      1.   If total float is Negative, it indicates critical activities.
      2.   Human resource planning has nothing to do with success of project.
      3.   Tail event is the event which marks the beginning of an activity.
      4.   Dummy has no duration.
      5.   Total float is equal to free float when the path is critical.
      6.   In network diagram dummy is represented by dotted line.
      7.   Head event is the start of event.
      8.   Mile stone chart is same as bar chart.
      9.   Events that follow another event is called successor events to that event.
      10.   Critical path is the longest path.

Q-3   **(a)**   Explain in detail all key knowledge areas of project management.   (5)
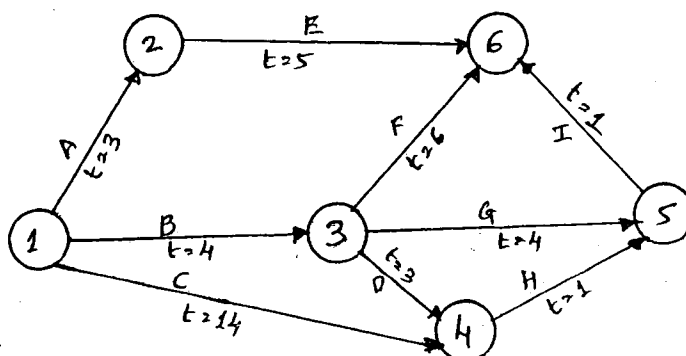   **(b)**   Enlist causes of Construction accidents.   (2)
      (c)   Explain Work Breakdown Structure in detail with example.   (3)

Q-4   (a) Write advantages and application of CPM in project management.   (2)
      (b) The network shown in figure has the estimated duration for each activity marked.   (8)
      Determine the total float for each activity and establish the critical path.
      Also determine free float and independent float for each activity.

(P.T.O)

Q-5 **(a)** Prepare the job layout for Construction of a Thirty storey building with - **(8)**
following data.

Plot area ... 100m x 200m, Building area ... 60m x 120 m

Please show a) Parking area, (b) Reinforcement yard (c) Cement store for minimum Storage of 1000 bags (d) Construction equipment (e) onsite RMC plant & their bins for Course and fine aggregate (f) watchman room, (g) site office for contractor's engineer, (h) space for surplus earth, (i) store for plumbing, wood and electrical etc. Explain your sketch with calculation-logic and thumb rule used and data assumed.

(b) Role of project manager in successful completion of the project. **(2)**