Quiz 2: Gantt charts and network diagrams   Score: _____

1.   Which of the following is NOT usually shown on a Gantt chart?

(A) The duration of each activity

(B) The start time for each activity

(C) The increased cost if any activity takes longer than planned

(D) The sequence of activities

2.   Which of the following is a useful feature of a Gantt chart?

(A) It can be used to identify the resources needed for a project.

(B) It doesn't show clearly the logic/predecessor relationships between the activities in a project.

(C) If a colour code is used it may become too complex if there are many actvities of different types.

(D) It doesn't show the impact on a project of delaying an activity.

3.   PDM (Precedence Network Method) network diagrams are also called "Activity on Arrow" network diagrams.

(A) True

(B) False

4.   On a PDM network diagram, for each activity on the critical path the early start is the same as the late start.

(A) True

(B) False

5.   A delay in any activity in a project will inevitably lead to late completion of a project. The only way this can be avoided is for a later activity to be completed more quickly than planned.

(A) True

(B) False

6.   Which of the following statements about CPM network diagrams is NOT correct?

(A) The number of dummy activities should be minimised.

(B) Nodes represent specific points in time.

(C) It is necessary to start with only one node, but there can be several nodes at the end of a CPM network diagram.

(D) Each activity has a unique ij number, where $i < j$.

7.　In a CPM network diagram, a dummy node is needed when:

(A) It is unclear how long an activity might take.

(B) There is too much float in the critical path.

(C) There is no critical path.

(D) Two activities start at the same time and are both predecessors for the same succeeding activity.

8.　What is the critical path for this project?

(A) A, B, D, E, G

(B) A, B, D, F, G

(C) A, C, D, E, G

(D) A, C, D, F, G

Activity	Predecessor	Duration (weeks)
A	---	1
B	A	3
C	A	4
D	B, C	6
E	D	5
F	D	2
G	E, F	4

9.　In a network diagram it's possible for the free float of an activity to be 3 days and the total float to be 1 day.

(A) True

(B) False

10.　The critical path of a project can include an activity with a total float of 1 day.

(A) True

(B) False