

**B.Sc. (I. T.) Sem. - IV (2011 Course) : WINTER - 2018**  
**SUBJECT- SOFTWARE PROJECT MANAGEMENT**

Day: Thursday  
Date: 29/11/2018

**W-2018-1105**

Time: 10.00 am to 01.00 pm  
Max. Marks: 80

**N.B.:**

- 1) Question No. 1 is **COMPULSORY**. Answer **ANY FOUR** of the remaining six questions.
- 2) Figures to the right indicate **FULL** marks.
- 3) Be brief. Use **DIAGRAMS** wherever necessary.

**Q.1** Write short notes on any **10** of the following. **(20)**

- a) Project
- b) Triple Constraints
- c) Knowledge Areas
- d) Project Charter
- e) Time Management
- f) Activity Sequencing
- g) Network Diagram
- h) CPM
- i) PERT
- j) GANTT Chart
- k) Risk Management
- l) Quality Management
- m) Benchmark
- n) Human Resource Management
- o) Communication Management

**Q.2** a) Given below are the various activities and their dependencies on a project. **(09)**  
Draw a neat Network Diagram. Show all the network paths on the network diagram and find Critical Path. Also calculate Early Start, Early Finish, Late Start, Late Finish, Total Float, Free Float- wherever applicable.

Activity Name	Duration	Dependency
A	02	-
B	08	-
C	12	-
D	11	B
E	07	F,I
F	08	B
G	16	-
H	02	-
I	08	G

- b) Explain Any **TWO** terms **(06)**
- i) Critical Path
  - ii) Early Start and Early Finish
  - iii) Total Float

**Q.3** a) What are the Process Groups in Project Management? Explain all 5 Process Groups in detail. **(10)**

- b) Explain Product Development Life Cycle in detail. **(05)**

**P.T.O.**

- Q. 4 a)** You are appointed as a Project Manager for a Project from Amplify Mindware- a college with various IT related courses. Currently the college is managing all their library activities manually and with paper work. You are supposed to create online application for library management, so that for any book any student can raise the request using internet and librarian. Create Work Breakdown Structure (WBS) for the application depicting all activities and sub-activities in the library management process. Allocate Code of Accounts for each WBS component. Also show Work Packages, Planning Packages and Control Accounts in the same. Explain them in detail. **(10)**
- b)** Name various estimation techniques and explain in detail Bottom-up estimation that uses WBS. **(05)**
- Q. 5 a)** What is Risk Management? Explain its significance in software project management. Elaborate using an example. **(10)**
- b)** What is Risk Breakdown Structure (RBS)? Explain importance of RBS. **(05)**
- Q. 6 a)** What is Quality Control? Explain its significance in software project management. Elaborate using an example. **(10)**
- b)** Explain how Quality Assurance and Quality Control are different from each other. **(05)**
- Q. 7 a)** What is Communication Management? Explain its significance in software project management. Explain how we can calculate communication channels with the help of number of stakeholders. **(10)**
- b)** Explain any processes related to Human Resource Management. **(05)**

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