

**Subject : Software Project Management**

Day : Wednesday  
Date : 01/06/2016



Time : 10.00 A.M. TO 1.00 P.M.  
Max Marks : 80 Total Pages : 2

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**N.B. :**

- 1) Attempt **ANY FIVE** questions from Section – **I** and attempt **ANY TWO** questions from Section – **II**.
  - 2) Answers to both the sections should be written in the **SAME** answer book.
  - 3) Figures to the right indicate **FULL** marks.
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**SECTION - I**

- Q. 1** Explain the various activities covered by the software project management. **(10)**
- Q. 2** What do you mean by requirement? Explain various types of requirement. **(10)**
- Q. 3** Describe the need of software effort estimation. List the challenges in the software effort estimation process. **(10)**
- Q. 4** Discuss about the organizational structures with their merits and demerits. **(10)**
- Q. 5** Explain elements of risk management in detail. **(10)**
- Q. 6** What is Quality? Discuss quality systems in brief. **(10)**
- Q. 7** Write short note on **ANY TWO** of the following: **(10)**
- a) Software metrics
  - b) Phases of software project management
  - c) Software cost factors

**SECTION - II**

- Q. 8** Calculate function point value for the project given below: **(15)**
- |                          |      |
|--------------------------|------|
| Number of Inputs         | - 13 |
| Number of Programs       | - 20 |
| Number of Output         | - 4  |
| Number of algorithms     | - 35 |
| Number of Enquiries      | - 7  |
| Number of Internal files | - 20 |
| Number of External files | - 03 |
| Number of Programmers    | - 7  |
- Compute for all the three types of complexities. Consider ( $\sum fi = 1$ ).

**P. T. O.**

**Q. 9** Consider the following project: **(15)**

Activity	Predecessor's	Duration (weeks)
A	-	5
B	A	7
C	B	2
D	B	3
E	C	1
F	D	2
G	C	1
H	E, F	3
I	G, H	10

- i) Draw activity network diagram and find the critical path.
- ii) What is the minimum completion time for the project?

- Q. 10**
- a) Design work breakdown structure to conduct online survey for student's view about Indian educational system. **(08)**
  - b) "Software engineering and software project management goes hand in hand". **(07)**  
Justify.

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