**Total No. of Questions :5]**

**SEAT No. :** ____

**P2335**

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## M.Sc.

## COMPUTER SCIENCE

## CS 21 - 301 : Software Metrics & Project Management

## (Old & New) (Semester - III)

***Time : 3 Hours]*** ***[Max. Marks :80***

***Instructions to the candidates:***

1) ***All questions are compulsory.***
2) ***All questions carry equal marks.***
3) ***Figures to the right indicate full marks.***

***Q1)*** Attempt the following: **[8×2=16]**

a) What is project management?

b) Define software metric & measure.

c) What is CPM? State its use in project management.

d) State any two attributes to measure software size.

e) Define CPIF & CPPC?

f) State output of quality control process.

g) Define direct cost & intangible cost.

h) What is Risk tolerance.

***P.T.O.***

***Q2)*** Attempt any four of the following: **[4×4=16]**

a) Explain project & product life cycle.

b) Write a note on configuration management.

c) What is WBS? State the principles of creating good WBS.

d) State the differences between PDM and AOA.

e) Which problems are occure with information technology cost estimation project.

***Q3)*** Attempt any four of the following: **[4×4=16]**

a) Discuss key issues related to staff acquisition & team building.

b) Write a note on types of contract.

c) Write a note on quality control.

d) As a group size increases, management challenges increases. Justify.

e) Write a short note on communication planning.

***Q4)*** Attempt any four of the following: **[4×4=16]**

a) Explain main processes of scope management.

b) Define

i) Risk Utility

ii) Risk Factor

iii) Risk event

iv) Risk symptom

c) Define

i) EVA

ii) SV

iii) CPI

iv) SPI

d) Write a short note on ISO 9000.

e) Write a short note on scope of software Metrics.

***Q5)*** Attempt any four of the following: **[4×4=16]**

a) Why revising metric plan is necessary.

b) A single error can result in one or more faults. Justify.

c) GQM approach is helpful to managers and developers. Justify.

d) Software reliability measurement is a prediction problem. Justify.

e) Write a note on internal & external attributes.