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END SEMESTER EXAMINATION, 2021

Semester: 6th Subject code: CO-603 Subject: Software Engineering Full marks : 56 Duration : 2.hour 30 minutes.

ALL QUESTIONS ARE COMPULSORY

1. Fill in the blanks.

- a) In function point Metric, the value of TCF can vary fromto.....
- b) The is the final outcome of the requirement analysis and specification phase.
- c) Code Inspection and Code are the two types of Code Reviews.
- e)testing is done by the customer himself.
- f) model is also known as meta model.

State TRUE or FALSE.

- g) The chief programmer team is subject to single point failure.
- h) A good specification should be unambiguous.

Select the correct answer.

i) Which of the following life cycle model lacks iterative product development?

- a) Spiral Model
- b) Prototyping model.
- c) Classical waterfall model d)
- d) Evolutionary model.

j) Which of the following is not a project planning activity?

a) Testing c) Staffing b) Schedulingd) Estimation

- 2. Answer all questions
 - a) Write about Black box and White Box testing
 - b) What do you mean by software crisis ? How software engineering can contribute to reduce that crisis ?
 - c) What is feasibility study ? what are the different feasibility studies that need to be conducted ?

$5 \times 3 = 15$

- d) Differentiate between PERT and GANTT chart with suitable diagram
- e) Explain about risk assessment and risk containment
- 3. Answer all questions

 $4 \times 4 = 16$

 $3 \times 5 = 15$

- a) Assume that the size of an organic type software product has been estimated to be 40,000 lines of source codes. Assume that the average salary of software developers is Rs. 20,000 PM. Determine the effort, Nominal development time and Cost required to develop the product.
- b) State the activities incorporated in a SQA plan.
- c) Define the term context diagram. Explain the various levels of DFDs .
- d) Explain about the various Team Structure that addresses the issues of a software organisation.
- 4. Answer all questions
 - a) Describe the various reliability metrics.

- b) Explain the different types of cohesion and coupling.
- c) Explain the various phases of Classical waterfall model with a neat diagram.
