K

(Printed Pages 4)

18/130-C

B.C.A. (III Semester) Examination, 2018

Paper : 302 Second

(Software Engineering)

Time : Three Hours]   *[Maximum Marks : 70*

Note : Attempt questions from **all** sections as per instructions.

Section - A

(Very Short Answer Type Questions)

Note : Attempt **all** parts of this question. Give the answer of each part in about 50 words.

$$1\frac{1}{2} \times 10 = 15$$

1. (i) What are software components?

   (ii) Define the term modularization.

   (iii) Define software verification.

   (iv) Difference between alpha and beta testing.

P.T.O.

(v) Define a risk.

(vi) What is the importance of software design?

(vii) List significance of Metrics in software.

(viii) What is abstraction?

(ix) What is meant by good quality software?

(x) What is data dictionary?

Section - B

(Short Answer Type Questions)

Note : Attempt **all** questions. Give the answer of each question in about **200** words.

$$7 \times 5 = 35$$

2. Describe merits and demerits of Top down and Bottom up approaches of system design.

OR

Discuss SDLC in brief. Also write input and output of each phases software development.

18/130-C

3. Discuss the waterfall model of software development in detail.

OR

Discuss the cocomo model for cost estimation in detail.

4. What is the difference between the function approach and object orient approach to software design.

OR

What is the need of preparing SRS in software development process?

5. What are the objectives of software maintenance? Explain in detail maintenance metrics.

OR

Write short note on software configuration management.

6. Explain with neat diagram the Prototyping model for software development.

OR

What are coupling and cohesion? High cohesion and low coupling is required for efficient software. Why?

18/130-C　　　　　　　　　　　　　　　**P.T.O.**

Section - C

(Long Answer Type Questions)

Note : Attempt any **two** questions. Give the answer of each question in about 500 words.

10×2=20

7. Explain various testing techniques with suitable examples.

8. Explain the need for software measures and describe function point metrics.

9. Explain Forth generation techniques.

10. What is planned during software project planning? Enumerate the steps through which planning is achieved.

11. Write short notes on any **two** of the following:

    (i) Software architecture

    (ii) Spiral model

    (iii) Programming style & documentation.

18/130-C