(NO. OF PAGES: 2)

(FOR THE CANDIDATES ADMITTED **20UBC415**

DURING THE ACADEMIC YEAR 2020 ONLY) **REG.NO.**

N.G.M.COLLEGE (AUTONOMOUS): POLLACHI

END-OF-SEMESTER EXAMINATIONS: JULY 2022

B.C.A **MAXIMUM MARKS: 70**

SEMESTER: IV **TIME: 3 HOURS**

PART - III

SOFTWARE ENGINEERING

SECTION - A (10 X 1 = 10 MARKS)

ANSWER THE FOLLOWING QUESTIONS.

MULTIPLE CHOICE QUESTIONS. (K1)

1 _____ refers to the manner in which each component functions with other components of the system.

a) Interaction b) Interdependence c) Organization d) System

2. _____ refers to the meaning and form of incoming and outgoing information.

a) Content b) Reality c) Process d) Correction.

3. _____ represents the internal organization of a various data and control item.

a) Information structure b) Information content c) Information flow d) None

4. The _____ defines the relationship among major structural elements of the program.

a) Data Design b) Interface Design

c) Architectural design d) Procedural design

5. _____ testing sometimes is called glass-box testing.

a) Black box b) White-box

c) Loop testing d) Condition testing

ANSWER THE FOLLOWING IN ONE (OR) TWO SENTENCES (K2)

6. Define feasibility study.
7. What is adaptive maintenance?
8. Define data objects.
9. Explain structural models.
10. What is flow graph?

SECTION – B (5 X 4 = 20 MARKS)

ANSWER EITHER (a) OR (b) IN EACH OF THE FOLLOWING QUESTIONS. (K3)

11. a) Discover the elements of the systems with neat example.

(OR)

b) Examine the feasibility study of the system development cycle.

(CONTD….2)

12. a) Describe the software applications with example.

(OR)

b) Compute the generic view of software engineering and its example.

13. a) Discuss the Quality function deployment with example.

(OR)

b) Describe the elements of the analysis model with neat diagram.

14. a) Examine the design principles with neat diagram.

(OR)

b) Describe the software architecture and its properties.

15. a) Discover briefly the extreme programming in agile process model.

(OR)

b) Sketch neatly the white box testing with example.

SECTION - C (4 X 10 = 40 MARKS)

ANSWER ANY FOUR OUT OF SIX QUESTIONS
(16th QUESTION IS COMPULSORY AND ANSWER ANY THREE QUESTIONS
(FROM Qn. No : 17 to 21) (K4 (Or) K5)

16. Classify the evolutionary software process model with example. [K4]

17. Explain the various types of systems with example. [K4]

18. Summarize in detailed about RAD model with neat example. [K5]

19. Outline in detailed about function modeling and information flow with examples. [K4]

20. Discuss in detailed about effective modular design with neat example. [K5]

21. Examine the control structure testing with neat example. [K4]

****