**ANNUAL EXAMINATION 2020**

**(Only for Regular Students)**

***Centre No. 135 Centre Name- Disha College, Raipur (C.G.)***

**Class-B.CA.-III Subject-Software Engineering**

**Paper No- BCA304 Paper Name- Software Engineering**

**Time- 3 hrs. M.M.-100**

Note – *Attempt all units. Each question carries equal marks*.

1. What are the principles of software Engineering ?Describe the problem related to software engineering process .
2. Which type of software model is more appropriate for developing a new software.
3. . Write short note on : i. Prototype ii. software Crisis

**UNIT 2**

1. What is software Metrics ? Explain COCOMO model in detail.
2. What are the steps of project management phase .
3. What is SRS ? How will you perform requirement analysis in software engineering ?

**UNIT 3**

1. Perform structured design methodology to produce a design for a system to do student registration in the manner it is done at your college .?
2. What is DFD ? Draw a DFD for your examination system .?
3. What is work Breakdown Structure ? how is it important in project planning .?

**UNIT 4**

1. Explain software Design principle ?
2. Which coding rules are applied for software development ? How codes are verified .?
3. Explain the following with example
4. Cohesion and Coupling (B) structure chart .

**UNIT 5**

1. Why do we need to perform software maintenance?
2. What do you mean by verification and validation ? What is the difference between verification and validation?
3. What is testing? Explain black box and white box testing in brief?