| | | | | | | Reg. | No. | | | | | | | | | | | | |
|---|---|--------------------|---------|-----------|-----------|-----------|---------------------|-------|--------|-------|------|-------|------|------|-----|----|-----------|------|---|
| | | | | 0 | tion De | C C | a da | | 12 | 0011 | 1 | | | • | | | • | | |
| Question Paper Code 12911 | | | | | | | | | | | | | | | | | | | |
| B.E. / B.Tech DEGREE EXAMINATIONS, APRIL / MAY 2024 Third Semester | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |
| Computer Science and Business Systems 20CBPC303 - SOFTWARE ENGINEERING | | | | | | | | | | | | | | | | | | | |
| Regulations - 2020 | | | | | | | | | | | | | | | | | | | |
| Duration: 3 Hours Max. Marks: 100 | | | | | | | | | | | | | | | | | | | |
| | PART - A (10 × 2 = 20 Marks) Answer ALL QuestionsMarks $\frac{K}{Level}$ | | | | | | | | | со | 1 | | | | | | | | |
| 1. | List o | out the go | als of | softwa | | | | icst | 10115 | | | | | | | 2 | <i>K1</i> | CO. | 1 |
| 2. | | e any two | | | - | | - | pro | duct. | | | | | | | 2 | Kl | CO. | 1 |
| 3. | State | the benef | fits of | feasibi | ility stu | dy. | | - | | | | | | | | 2 | K1 | CO | 2 |
| 4. | Defin | ne Risk M | litigat | on. | | | | | | | | | | | | 2 | Kl | CO. | 2 |
| 5. | Defin | ne Traceal | bility. | What | are the | two tyj | pes of | f tra | ceab | ility | /? | | | | | 2 | K1 | СО. | 3 |
| 6. | Defin | ne use cas | e. | | | | | | | | | | | | | 2 | K1 | СО. | 3 |
| 7. | Diffe | erentiate b | lack b | ox test | ting and | d white | box 1 | test | ing. | | | | | | | 2 | K2 | CO | 4 |
| 8. | What | t is transa | ction | based t | esting? | | | | | | | | | | | 2 | K1 | CO | 4 |
| 9. Differentiate product quality and process quality. | | | | | | | | 2 | | СО. | | | | | | | | | |
| 10. | State | the four p | princij | ples to | achieve | e softw | vare qu | uali | ty. | | | | | | | 2 | K1 | СО. | 5 |
| PART - B (5 × 13 = 65 Marks) Answer ALL Questions | | | | | | | | | | | | | | | | | | | |
| 11. | a) | Explain | Engi | neering | g appro | | softw)R | are | deve | lop | mei | nt. | | | | 13 | K2 | CO. | 1 |
| | b) | Illustrate | the b | asic ste | eps invo | olved i | n the | life | cycl | e m | ode | ls in | det | ail. | | 13 | K2 | CO. | 1 |
| 12. | a) | Explain | in det | ail the | measur | | ode ai)R | nd c | lesig | n qı | ıali | ty. | | | | 13 | K2 | CO. | 2 |
| | b) | Summar Software | | | | | matio | n | Mod | els | an | d c | onc | epts | of | 13 | K2 | CO. | 2 |
| 13. | a) | Explain model. | in d | etail a | bout C | | - | onsi | bility | C | olla | bora | ator | (CF | RC) | 13 | K2 | СО. | 3 |
| | 1.) ') | Corre | : 1 | | | |)R | 4.1 | 1. | | . 1 | | | | | 7 | K٦ | CO. | 3 |
| | | Summar | | | - | | | | | amp | pies | • | | | | 6 | | CO. | |
| | 11) | Explain | seque | nce Di | agram | with ar | 1 exar | npl | e. | | | | | | | 0 | | | |
| K1 | – Reme | ember; K2 - | - Unde | rstand; I | K3 – App | oly; K4 - | - Analy 1 | vze; | K5 — . | Eval | uate | ; K6 | – Cr | eate | | | 12 | 2911 | l |

| 14. | a) | Explain in detail about faults and failures with its types. OR | 13 | К2 | <i>CO4</i> |
|-----|----|--|----|----|------------|
| 15. | b) | Classify the various types of inspection with the help of any one example. | 13 | K2 | <i>CO4</i> |
| | a) | Explain about External and internal qualities in detail. OR | 13 | K2 | CO5 |
| | b) | Explain CMM, CMMI in detail. | 13 | K2 | CO5 |

PART - C (1 × 15 = 15 Marks)

| 16. | a) i) | Identify the importance of Software Requirement Specification. | 8 | K3 | CO3 | | | | | | |
|-----|-------|---|---|----|------------|--|--|--|--|--|--|
| | | Prepare an SRS document for Library Management System. | | | | | | | | | |
| | ii) | ii) Identify the importance of ISO-9126 with suitable examples. | | | | | | | | | |
| | OR | | | | | | | | | | |
| | b) i) | Organize the basic steps involved in Design Patterns and explain it | 8 | K3 | СО3 | | | | | | |
| | | with the help of an example. | | | | | | | | | |
| | ii) | Identify the importance of McCall Quality Model. | 7 | K3 | <i>CO5</i> | | | | | | |