BIRLA INSTITUTE OF TECHNOLOGY, MESRA, RANCHI (MID SEMESTER EXAMINATION)

| CLASS: BRANCH: | | BE I: IT | BE IT | | | | | SEMESTER: V SESSION : MO/2018 | |
|---|--|---|--|--|--|-----------------------|---------------------|----------------------------------|----------|
| SUBJECT : IT5023 SOFTWARE ENGINEERING PRINCIPLES | | | | | | | | | |
| TI۸ | ۸E: | 1.5 | HOURS | | | FULL MARKS: 25 | | | |
| INS 1. 2. 3. 4. 5. | TRUC The to Candi In tho Before The m | CTIONS otal ma dates i ose case e atter nissing | : arks of the questions are 3 may attempt for all 30 ma es where the marks obtain npting the question paper data, if any, may be assu | 30. arks. ned exceed 25 m r, be sure that yo med suitably. | arks, the excess v ou have got the co | vill be ignorrect que | ored. stion pape | er. | |
| Q1 | (a) | Systems developed as prototypes should not normally be used as production systems. Give | | | | | | Give [2 | 2] |
| (b) Would you use scrum-based software development for online pizza ordering Justify your answer. | | | | | | | dering sys | stem? [3 | 3] |
| Q2 | (a) Give the block diagram representation of RAD and Incremental model. (b) Give the best reason (only one) for the following statements: Test first development gives the programmer a better understanding of the system requirements The productivity rate in Pair programming is more than half of two programmers working individually. Change is inevitable in software engineering. | | | | | | | | 2] 3] |
| Q3 | (a) | A program is to be developed to simulate the operations of a scientific calculator. Analyse | | | | | | | 2] |
| | (b) | two functional, nonfunctional requirements and exciting requirements.b) Draw a use case diagram for the scientific calculator. | | | | | | [] | 3] |
| Q4 | (a) (b) | a) Define a stakeholder. List ways in which a requirements document can be written? b) What do we check requirements for? Discuss the strategies adopted for validating requirements | | | | | | | 2] 3] |
| Q5 | (a) (b) | a) List risk management and prioritization Steps. b) List the factors on which effectiveness of a group composition and communication depends. | | | | | | | 2] 3] |
| Q6 | 6 (a) Draw the Network and determine the Critical Path Task Schedule in Pre-decessors t _m | | | | | | t _p | [2 | 2] |
| | | Task | 1 | $days(t_0)$ | | 6 | 9 | | |
| | | Task | 2 | 2 | | 3 | 4 | | |
| | | Task | 3 | 4 | 2 | 6 | 8 | | |
| | | Task | 4 | 2 | | 4 | 6 | | |
| | | Deliv | erable A | | 1,3,4 | | | | |
| | | Task | 6 | 6 | 5 | 8 | 9 | | |
| | | Task | 7 | 2 | 5 | 5 | 6 | | |
| | | Deliv | erable B 6, 7 | | 6,7 | | | | |
| | | Task | 9 2d 1 | 2 | 1 | 3 | 7 | | |

(b) For the above given statistics find out the Float values and the actual time for project [3] completion.

:::::: 11/09/2018 :::::E