|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Question No | Marks to be allotted | | | |
| 1 | 8 to 10 Marks if:  5 Problems identified thoroughly with appropriate trouble shooting methods and provided relevant screenshots for all | 6 to 8 Marks:  More than 3 problems identified and explained with appropriate trouble shooting methods correctly with relevant screen shots | 4 to 6 marks if :  Less than 3 problems identified with satisfactory expatiation with satisfactory trouble shooting with minor errors or if any screenshots are missing. | 0 to 4 marks if:  If the problems are not explained properly and screenshots have not been provided |
| 2 | 4 to 5 marks if:    Excellent discussion on what distinguishes a real-time system from other OS with three examples and in depth justification is provided. | 3 to 4 marks if  Satisfactory discussion on what distinguishes a real-time system from other OS with three examples but justification is not adequate | 2 to 3 Marks if:  Only real-time operating system is discussed but fails to provide comparison with other operating system and less than 3 examples are provided | 0 to 2 marks if:  The discussion on real time system is not satisfactory and fails to compare with other operating system and no example is provided |
| 3  Note: \*Hand-drawn diagrams are not accepted\* | 4 to 5 marks if:  The two approaches are correctly identified with final figures and an appropriate comment is provided comparing the data movements. | 3 to 4 marks if:  The two approaches are correctly identified with final figures but the comment on data movement comparison is not adequate | 2 to 3 marks if:  The two approaches are correctly identified but the final figures are missing or with errors and data movement comparison is provided | 0 to 2 marks if:  The two approaches are wrongly identified and the final figures are missing or with errors and no comparison provided |
| 4 | Maximum Marks 15  For each process strategy  Deduct 0.5 Marks for each wrong pair of completion time and turn around time.  Deduct 1 Marks if Gantt chart is wrong or missing for each process strategies  Deduct 0.2 Marks for each missing suggestion of application of process strategies | | | |
| 5 | 8 to 10 Marks if:  Deadlock and its consequences has been explained thoroughly and correctly identified and addressed cyclic deadlock present in the image | 6 to 8 Marks if:  Deadlock has been explained but explanation on its consequences is not adequate and correctly identified and addressed cyclic deadlock present in the image | 4 to 6 Marks if:  Deadlock is explained but there is no comment on consequences of deadlock. The deadlock analysed is wrong. | 0 to 4 Marks if:  Failed to provide proper explanation of deadlock and no comment on consequences. Wrong deadlock analysed in the image or No comment on deadlock present in the image |
| 6  Note: \*Hand-drawn diagrams are not accepted\* | 23 to 30 Marks if:  Excellent and accurate calculation of seek strategies with appropriate diagrams with a conclusion of best strategy | 15 to 23 Marks if:  calculation of seek strategies with minor errors but appropriate diagrams with a conclusion of best strategy | 10 to 15 Marks if:  Major logic and calculation errors in seek strategies but with appropriate diagrams and without conclusion of best strategy | 0 to 10 Marks if:  Major logic and calculation errors and diagrams are not provided for any seek strategies and conclusion is missing. |
| 7 | 4 to 5 Marks if:  Excellent discussion on 2 file systems is provided addressing its advantages and limitations. | 3 to 4 Marks if:  Satisfactory discussion on 2 file systems and only addresses advantages or limitations. | 2 to 3 Marks if:  Discussion is average and only one file system is discussed, only advantage or limitation is discusses | 0 to 2 Marks if:  Explanation is not relevant and missed addressing the question |
| 8 | 4 to 5 Marks if:  Excellent discussion on evaluating the effectiveness of voice user interfaces (VUIs) in enhancing accessibility and user convenience with excellent reasoning and discussion of challenges. | 3 to 4 Marks if:  Satisfactory discussion on evaluating effectiveness of voice user interfaces is provided with some appropriate reasoning and discussion over challenges | 2 to 3 Marks if:  Satisfactory discussion on evaluating effectiveness of voice user interfaces is provided but fails to address the challenges properly | 0 to 2 Marks if:  Discussion on VUI is not adequate and fails to address the challenges |
| 9 | 8 to 10 Marks if:  Demonstrated excellent understanding of the Unix’s commands with valid syntax, and step by step process with examples and a valid screenshot. | 6 to 8 Marks if:  Has provided commands in correct order but did not explained the commands properly, and has provided screenshots of examples | 4 to 6 Marks if: The commands provided have minor errors or the explanations provided has minor errors, has not provided screenshots | 0 to 4 Marks if:  The commands are wrong and has not provided screenshots |
| References | Maximum 5 Marks  The student should provide at least 10 references in IEEE style.  Each valid reference will hold 0.5 Marks | | | |