**RUBRIC: SSC 1stANNUAL EXAMINATION 2022**

 **SUBJECT: COMPUTER SCIENCE SSC-I (Hard Area)** Final rubric by Madm Rozina and Khalid Memood sb dated 10-6-22 at 12:36

| **Q.# /Part #** | **Criteria** | **Level 1 (Marks)** | **Level 2 (Marks)** | **Level 3 (Marks)** | **Level 4 (Marks)** | **Level 5 (Marks)** |
| --- | --- | --- | --- | --- | --- | --- |
| **2 (i)** | **Difference between Analog & Digital computers** | **Any three correct differences (03)** | **Any two correct differences (02)** | **Any one correct difference (01)** | **Wrong (0)** |  |
| **(ii)** | 1. **Delivery in communication system**
 | **Correct description (1.5)** | **Partially Correct description (01)** | **Any relevant information (0.5)** | **Wrong (0)** |  |
| 1. **Accuracy in communication system**
 | **Correct description (1.5)** | **Partially Correct description (01)** | **Any relevant information (0.5)** | **Wrong (0)** |  |
| **(iii)** | **Examples of Computer technology used to revolutionize business** | **Correctly describing any three examples (03)** | **Correctly describing any two examples (02)** | **Correctly describing any one example (01)** | **Wrong (0)** |  |
| **(iv)** | **Advantages of using GUI** | **Any three correct advantages (03)** | **Any two correct advantages (02)** | **Any one correct advantage (01)** | **Wrong (0)** |  |
| **(v)** | **Use of Computer to improve academic performance** | **Any three correct ways (03)** | **Any two correct ways (02)** | **Any one correct way (01)** | **Wrong (0)** |  |
| **(vi)** | **Problems faced by a user if no antivirus is installed** | **Description of any three correct problems (03)** | **Description of any two correct problems (02)** | **Description of any one correct problem (01)** | **Wrong (0)** |  |
| **(vii)** | **Cache memory** | **Correct description (03)** | **Partially Correct description (02)** | **Any relevant information (01)** | **Wrong (0)** |  |
| **(viii)** | **Definition of Hyperlink** | **Correct definition (01)** | **Partially correct definition (0.5)** | **Wrong (0)** |  |  |
| **Working of Hyperlink** | **Correct Working (01)** | **Partially correct working (0.5)** | **Wrong (0)** |  |  |
| **Example** | **Correct Example (01)** | **Partially Correct Example (0.5)** | **Wrong (0)** |  |  |
| **(ix)** | **Reliability of Guided communication medium over unguided medium** | **Any three correct reasons (03)** | **Any two correct reasons (02)** | **Any one correct reason (01)** | **Wrong (0)** |  |
| **(x)** | **a. Definition of Bandwidth** | **Correct definition/purpose (01)** | **Partially Correct definition/purpose (0.5)** | **Wrong (0)** |  |  |
| 1. **Definition of Cross Talk**
 | **Correct definition/purpose (01)** | **Partially Correct definition/purpose (0.5)** | **Wrong (0)** |
| 1. **Definition of Data transmission**
 | **Correct definition/purpose (01)** | **Partially Correct definition/purpose (0.5)** | **Wrong (0)** |  |  |
| **(xi)** | **Reliability of Star topology over Bus topology** | **Any three correct reasons (03)** | **Any two correct reasons (02)** | **Any one correct reason (01)** | **Wrong (0)** |  |
| **(xii)** | **Moral guidelines for ethical use of computer technology**  | **Any three correct moral guidelines (03)** | **Any two correct moral guidelines (02)** | **Any one correct moral guideline (01)** | **Wrong (0)** |  |
| **(xiii)** | **Authentication methodology** | **Name of any valid Authentication methodology (01)** | **Wrong (0)** |  |  |  |
| **Reason for secure identification and verification** | **Description of any correct reason (02)** | **Partially correct description of the reason (01)** | **Wrong (0)** |  |  |
| **3 (a)** | **Difference between Synchronous and Asynchronous data transmissions**  | **Describing any four differences correctly (04)** | **Describing any three differences correctly (03)** | **Describing any two differences correctly (02)** | **Describing any one difference correctly (01)** | **Wrong (0)** |
| **3 (b)** | 1. **Explanation of NIC**
 | **Correct Explanation of NIC (02)** | **Partially Correct Explanation (01)** | **Some relevant information (0.5)** | **Wrong (0)** |  |
| 1. **Explanation of Router**
 | **Correct Explanation of Router (02)** | **Partially Correct Explanation (01)** | **Some relevant information (0.5)** | **Wrong (0)** |  |
| **4 (a)** | **Description of Mesh topology** | **Correct description (02)** | **Partially correct description (01)** | **Some relevant information (0.5)** | **Wrong (0)** |  |
| **Advantages** | **Any two correct advantages (01)** | **Any one correct advantage (0.5)** | **Wrong (0)** |  |  |
| **Disadvantages** | **Any two correct disadvantages (01)** | **Any one correct disadvantage (0.5)** | **Wrong (0)** |  |  |
| **4 (b)** | **Description of Ring topology** | **Correct description (02)** | **Partially correct description (01)** | **Some relevant information (0.5)** | **Wrong (0)** |  |
| **Advantages** | **Any two correct advantages (01)** | **Any one correct advantage (0.5)** | **Wrong (0)** |  |  |
| **Disadvantages** | **Any two correct disadvantages (01)** | **Any one correct disadvantage (0.5)** | **Wrong (0)** |  |  |
| **5 (a)** | **Explanation of Mainframe computer in terms of size, speed, storage and number of users** | **Correct explanation in terms of all four aspects (04)** | **Correct explanation in terms of any three aspects (03)** | **Correct explanation in terms of any two aspects (02)** | **Correct explanation in terms of any one aspect (01)** | **Wrong (0)** |
| **5 (b)** | **Explanation of Microcomputer in terms of size, speed, storage and number of users** | **Correct explanation in terms of all four aspects (04)** | **Correct explanation in terms of any three aspects (03)** | **Correct explanation in terms of any two aspects (02)** | **Correct explanation in terms of any one aspect (01)** | **Wrong (0)** |