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**GASABO DISTRICT**

**DISTRICT COMPREHENSIVE ASSESSMENT, RTQF LEVEL3 2022-2023**

**TRADE: ICT AND MULTMEDIA**

**Level :3 NETWORKING AND INTERNET TECHNOLOGIES**

**MODULE: CCTV CAMERA INSTALLATION**

**DATE OF EXAM: 20/03/2023 Duration: 3hours**

**ACADEMIC YEAR: 2022-2023**

**Instructions:**

1. **Answer all questions in section A (55 Marks)**
2. **Answer three question in section B (30 Marks)**
3. **Answer one question in section c (15 Marks**)

**SECTION A**

1. What does CCTV means? **/5 Marks**
2. What are the benefits of cable trucking? **/5Marks**
3. With short explanation, Enumerate Main components of a CCTV System /**5mark**
4. Discuss different types of camera mounts and list down one benefit for each type? **/4 Marks**

5. What is the role of keyboard and mouse in CCTV Camera system? **/4 Marks**

1. List down 5 factors you need to consider when buying a CCTV Camera? **/5Marks**

7. Outline the STEPS to be followed when installing a camera? **/4 Marks**

1. Answer by True or False: The following is a component of a CCTV system? **/0.5 for each Marks**
2. Cameras
3. Lenses
4. Housings and mounts
5. Monitors
6. Switchers
7. Multiplexers
8. USB
9. VGA
10. Video recorders
11. BNC Cable
12. Discuss different types of camera mounts and list down one benefit for each type? **/4 Marks**
13. Outline five examples of CCTV controller devices? **/5 Marks**
14. Write the following acronyms in full: **/5 Marks**
15. FOV : **1marks**
16. CCTV: **1mark**
17. NIC : **1mark**
18. UTP: **1mark**
19. DVR: **1mark**
20. NVR: **1mark**
21. List down 5 factors you need to consider when buying a CCTV Camera? **/5Marks**

**Section B: *Attempt ALL four* (4) Questions *of this Section* /30Marks**

1. Outline the STEPS to be followed when installing a camera? **/4 Marks**
2. Lenses are available in three basic types. List down them? **/10 Marks**
3. Discuss the common problems that are most occurring in CCTV Cameras system? **/10 Marks**
4. All CCTV cameras include three basic elements shown in column A. their roles are shown in the column B. in the following table, Match the column to the column B. **/10 Marks**

|  |  |  |
| --- | --- | --- |
| ANSWERS | 1. basic elements | 1. role |
| 1……**c**/**3.5marks** | 1.Image sensor | a. Organizes, optimizes, and transmits video signals. |
| 2..**b** /**3.5marks** | 2. Lens | b. Gathers light reflected from a subject and focuses the light on the image sensor, |
| 3.**a** /**3marks**. | 3. Image processing circuit | c. Converts light (photons) into electronic signals |

**SECTION C ATTEMPT ONE QUETION**

1. What are the considerations before installing a CCTV camera? **/15 Marks**
2. Design CCTV camera system diagram and explain working Principal **/15mark**

**END OF ASSESSMENT**