

**745/3  
TECHNOLOGY  
& DESIGN  
Paper 3  
2024**



**UGANDA NATIONAL EXAMINATIONS BOARD**

**Uganda Certificate of Education**

**TECHNOLOGY AND DESIGN**

**Paper 3  
Practical**

*New Lower Secondary Curriculum*

***SCORING GUIDE***

| <b>Bases of assessment</b>  | <b>Attributes and scores</b>                                                                                                     | <b>Attribute range</b>                                                                                                                                             | <b>scores</b>                                                                                                               |                                                          |
|-----------------------------|----------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|
| <b>1. Preliminary steps</b> | <b>a) Protective gears</b><br>i) Helmet<br>ii) Overall<br>iii) Gloves/Apron<br>iv) Safety boots<br>v) Goggles                    | Having 4-5 gears<br><br>Having 2 – 3 gears<br><br>Having 1 – 0 gears                                                                                               | <b>2</b><br><br><b>1</b><br><br><b>0</b>                                                                                    |                                                          |
|                             | <b>b) Layout of plan and symbols of components</b><br>i) Plan sketch<br>ii) Switch<br>iii) Socket<br>iv) Bulb<br>v) Junction box | Laying out:<br>4 - 5 components<br><br>2 – 3 components<br><br>1 – 0 components                                                                                    | <b>2</b><br><br><b>1</b><br><br><b>0</b>                                                                                    |                                                          |
|                             | <b>c. Wiring diagram</b><br>i) light circuit<br>ii) socket circuit                                                               | <b>2</b> circuits layout<br>1 circuits layout<br>No circuits layout or<br>Incorrect circuit                                                                        | <b>2</b><br><b>1</b><br><b>0</b>                                                                                            |                                                          |
|                             | <b>2. Operations</b>                                                                                                             | <b>a) Connecting light circuit</b><br>(i) Intake to junction box<br>(ii) Junction box to switch<br>(iii) Switch to lamp holder<br>(iv) Junction box to lamp holder | 4 Correct connections<br>3 Correct connections<br>2 Correct connections<br>1 Correct connection<br>No /incorrect connection | <b>4</b><br><b>3</b><br><b>2</b><br><b>1</b><br><b>0</b> |
|                             |                                                                                                                                  | <b>b) Connecting socket circuit</b><br>(i) Intake to junction box<br>(ii) Junction box to socket                                                                   | 2 Correct connections<br>1 Correct connection<br>No connection                                                              | <b>2</b><br><b>1</b><br><b>0</b>                         |
|                             |                                                                                                                                  | <b>c) Fixing accessories</b><br>(i) Clipping wires<br>(ii) Fixing<br>MK/Switch/socket/JB                                                                           | Fixing 2 accessories<br>Fixing 1 of the accessories<br>No accessory fixed                                                   | <b>2</b><br><b>1</b><br><b>0</b>                         |

| <b>Bases of assessment</b> | <b>Attributes and scores</b>                                                                                                                                        | <b>Attribute range</b>                                                                                         | <b>scores</b>                                |
|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|----------------------------------------------|
|                            | <b>d) Correct use of tools</b><br>i) Hammer - Clipping<br>ii) Wire stripper - Striping<br>iii) Screw driver - Fixing<br>MK/Junction boxes/lamp holder/switch/socket | 3 tools Used correctly<br>2 tools used correctly<br>1 tool correctly<br>No tool used or incorrect use of tools | <b>3</b><br><b>2</b><br><b>1</b><br><b>0</b> |
| <b>3. Finishing</b>        | <b>Work finish</b><br>a) Clean work area<br>b) Gathering tools                                                                                                      | Two finishes<br>I finish<br>Incorrect or No finish                                                             | <b>2</b><br><b>1</b><br><b>0</b>             |