

## QA Engineer Homework

### 1.Theoretical Part Solution

#	Test Description	Procedure	Expected Result(Pass Criteria)
1	Test power button functionality	1. Press the power button. 2. Observe if the camera powers on/off.	Camera powers on/off successfully.
2	Test shutter button for photo capture	1.Switch to photo mode. 2.Press the shutter button. 3.Check if an image is saved.	Photo is captured and saved.
3	Test mode switch button toggling	1.Press the mode switch button. 2.Observed if it toggles between video and photo modes.	Mode toggles correctly.
4	Test water resistance at 100m depth	1.Submerge the camera at 100m underwater for 10 minutes. 2.Remove and check functionality.	Camera operates without water damage.
5	Test drop resistance from 15m	1.Drop the camera from a height of 15m onto a hard surface. 2.Verify functionality.	Camera survives without internal damage or loss of functionality.
6	Test standby battery life (10 hours)	1.Fully charge the camera. 2.Leave it in standby mode. 3.Measure time until the battery depletes.	Camera remains in standby for at least 10 hours.
7	Test filming battery life (4 hours)	1.Fully charge the camera. 2.Film continuously until the battery depletes.	Camera films for at least 4 hours.
8	Test photo clarity	1.Take a photo in bright light. 2. Analyze the quality of the image.	Image is clear and sharp.
9	Test video recording quality	1.Record a 5-minute video in bright light. 2.Review the video playback.	Video is smooth with correct resolution.

10	Test behavior in low temperatures	1.Place the camera in -10°C conditions for 1 hour.  2.Verify all functions.	Camera operates correctly in cold temperatures.
11	Test behavior in high temperatures	1.Place the camera in 40°C conditions for 1 hour.  2.Verify all functions.	Camera operates correctly in heat.
12	Test memory storage for photos	1.Capture 1000 photos.  2.Verify all photos are saved.	All photos are stored correctly.
13	Test memory storage for video	1.Record a 1-hour video.  2.Check if the file is saved without corruption.	Video is saved and playable.
14	Test physical button durability	1.Press each button 10,000 times.  2.Verify button functionality.	Buttons remain functional after extended use.
15	Test auto power-off feature	1.Leave the camera idle for 10 minutes.  2.Observe if it powers off automatically.	Camera powers off automatically to save battery.