Ceiling Fan Test Cases (College Format)

Objective / Test Scenario	Input / Test Steps	Expected Output
Fan ko ON karna	Switch ON karo	Fan chal padta hai
Fan ko OFF karna	Switch OFF karo	Fan ruk jata hai
Speed control check karna	Regulator 1 se 5 tak ghumao	Fan ki speed gradually badhti hai
Power failure test	Power supply band karo	Fan turant band ho jata hai
Power resume test	Power wapas aane par ON karo	Fan normal kaam karta hai
Maximum speed test	Fan ko max speed pe chalao	Fan stable rahe, vibration na kare
Long run test	Fan ko 24 hours tak continuously chalao	Fan overheat na ho, smooth chale
Voltage fluctuation test	Voltage 180V–240V tak vary karo	Fan stable speed maintain kare
Overheating test	Fan ko lambe samay tak chalne do	Motor overheating detect hone par auto cutoff
Blade balance test	Fan chalu karke vibration observe karo	Fan wobble na kare
Noise level test	Fan chalu karke noise measure karo	Noise < 50 dB
Regulator smoothness	Regulator rotate karo	Speed smooth aur gradual badhe
Remote control test (agar feature hai)	Remote se ON/OFF karo	Fan remote se control ho jata hai
LED indicator test	Fan ON karo	LED indicator light jale
Wrong wiring test	Galat wiring simulate karo	Safety system fan start hone na de
Broken blade test	Ek blade remove karo aur ON karo	Fan start hone se pehle safety trip ho
Short circuit test	Short circuit simulate karo	MCB trip kare, fire hazard na ho
Switch stuck test	Switch ON state me atka do	Fan constant speed pe chale, safety active ho
Aesthetic test	Fan design aur finishing inspect karo	Surface smooth aur color perfect ho
Reverse rotation test (agar feature hai)	Reverse button ON karo	Fan opposite direction me ghoomta hai