

## Appendix B

### SCANAQ Scoring Breakdown, Descriptions, and PFC-Inspired Suggestions

#### Section A: Executive Function (EF) — Items 1–8

##### Scoring / Interpretation Table

PROFILE CODE	PROFILE LABEL	SCORE RANGE	ITEMS (Q#)	DESCRIPTION	PFC-INSPIRED SUGGESTION
4A	High Inhibition, Low Planning	8–13	1–8	Difficulty initiating and planning tasks.	Provide planning tools, reminders, organizational aids; break tasks into smaller steps.
4B	Low Inhibition, High Working Memory	14–24	1–8	Strong working memory; impulsivity may need regulation.	Offer impulse-control strategies; leverage strong WM for complex/multistep tasks.

## Section B: Emotion Regulation (ER) — Items 9–12

Scoring / Interpretation Table

PROFILE CODE	PROFILE LABEL	SCORE RANGE	ITEMS (Q#)	DESCRIPTION	PFC-INSPIRED SUGGESTION
2B	Low Cognitive Reappraisal, High Expressive Suppression	4–19	9–12	Difficulty reframing emotions; relies on suppression strategies.	Train cognitive reappraisal via CBT-style reframing tools and guided cognitive restructuring.
2A	High Cognitive Reappraisal, Low Expressive Suppression	20–28	9–12	Strong emotional reframing; balanced expression.	Provide expressive-regulation tools to fine-tune social display and contextual appropriateness.

## Section C: Impulsivity (IMP) — Items 13–18

Scoring / Interpretation Table

PROFILE CODE	PROFILE LABEL	SCORE RANGE	ITEMS (Q#)	DESCRIPTION	PFC-INSPIRED SUGGESTION
5B	High Motor Impulsivity, Low Non-Planning Impulsivity	6–12	13–18	Acts impulsively; limited advance planning.	Embed pause-and-plan prompts; use external structure, checklists, and “if-then” implementation intentions.
5A	High Attentional Impulsivity, Low Motor Impulsivity	13–24	13–18	Distractible but less motorically impulsive.	Provide attentional control aids (mindfulness, focus timers, distraction blockers).

## Section D: Risk Propensity (RP) — Items 19–21

Scoring / Interpretation Table

PROFILE CODE	PROFILE LABEL	SCORE RANGE	ITEMS (Q#)	DESCRIPTION	PFC-INSPIRED SUGGESTION
6B	Low Risk-Taking	3–9	19–21	Avoids risk; prefers safer choices.	Scaffold calculated exploration; present graded exposure to uncertainty with feedback.
6A	High Risk-Taking	10–15	19–21	Seeks/enjoys taking risks.	Provide risk-assessment tools, consequence simulators, and decision hygiene checklists.

## Section E: Decision-Making Style (DM) — Items 22–26

### Determination Rule Table

Determine the **single highest scoring item** among Q22–Q26; assign the corresponding style below (no cumulative score).

### Style Interpretation Table

STYLE CODE	PRIMARY ITEM	STYLE LABEL	DESCRIPTION	PFC-INSPIRED SUGGESTION
1A	Q22	Rational	Logical, systematic decision-making.	Provide data-driven tools, structured analysis frameworks, and MCDA/utility modeling.
1B	Q23	Intuitive	Relies on instincts.	Pair intuition with post-hoc analytical checks; use scenarios/simulations for calibration.
1C	Q24	Dependent	Seeks guidance and collaboration.	Offer collaborative tools/decision aids; scaffold autonomy via staged independence.
1D	Q25	Avoidant	Procrastinates/avoids decisions.	Use proactive prompts, deadlines, and commitment devices; provide bounded-choice frameworks.
1E	Q26	Spontaneous	Quick, reflexive decisions with limited forethought.	Introduce pause rules (“10-second rule”), consequence visualizations, and pre-commitment plans.

### Section F: Self-Efficacy (SE) — Items 27–29

Scoring / Interpretation Table

PROFILE CODE	PROFILE LABEL	SCORE RANGE	ITEMS (Q#)	DESCRIPTION	PFC-INSPIRED SUGGESTION
7B	Low Self-Efficacy	3–8	27–29	Low confidence handling problems/challenges.	Build mastery via graded goals, mentorship, success tracking, and strengths-based reflection.
7A	High Self-Efficacy	9–12	27–29	Confident and effective under challenge.	Leverage leadership potential; assign complex tasks; promote peer coaching/knowledge transfer.

### Section G: Perceived Stress (PS) — Items 30–32

Scoring / Interpretation Table

PROFILE CODE	PROFILE LABEL	SCORE RANGE	ITEMS (Q#)	DESCRIPTION	PFC-INSPIRED SUGGESTION
8B	Low Perceived Stress	3–9	30–32	Reports lower stress frequency.	Maintain resilience practices; add anticipatory coping plans for high-demand periods.
8A	High Perceived Stress	10–15	30–32	Frequently stressed/overwhelmed.	Provide stress-management (CBT, relaxation, time-buffering, prioritization aids).

## Section H: Empathy & Social Cognition (ESC) — Items 33–36

Scoring / Interpretation Table

PROFILE CODE	PROFILE LABEL	SCORE RANGE	ITEMS (Q#)	DESCRIPTION	PFC-INSPIRED SUGGESTION
3B	Low Empathy	4–12	33–36	Difficulty relating to or understanding others.	Social skills training, perspective-taking exercises, and feedback on empathic accuracy.
3A	High Empathy	13–20	33–36	Strong empathic concern and social attunement.	Encourage mentoring/leadership roles; integrate into cooperative, high-EQ team workflows.

### Global Notes

#### Note

Scores are summed **within each section** (except Decision-Making Style, which is determined by the **single highest-scoring item** among Q22–Q26).

These profiles are intended to **align and personalize** SCAN’s agent behaviors; they are **not diagnostic categories**.

Ensure all processing complies with **privacy, ethical, and regulatory** standards (e.g., HIPAA, GDPR, IRB guidance as applicable).