Assessment Schedule – 2018

Digital Technologies: Demonstrate understanding of advanced concepts from computer science (91371)

Assessment Criteria

Achievement	Achievement with Merit	Achievement with Excellence
Demonstrating understanding of advanced concepts from computer science involves: • describing ways in which different types of data can be represented using bits • describing the concept of encoding information using compression coding, error control coding, and encryption; and typical uses of encoded information • providing examples from human–computer interfaces that illustrate usability heuristics.	Demonstrating in-depth understanding of advanced concepts from computer science involves: • comparing and contrasting different ways in which different types of data can be represented using bits, and discussing the implications • discussing how a widely used technology is enabled by one or more of compression coding, error control coding, and encryption • evaluating a given human–computer interface in terms of usability heuristics.	Demonstrating comprehensive understanding of advanced concepts from computer science involves: • evaluating a widely used system for compression coding, error control coding, or encryption • suggesting improvements to a given human–computer interface based on an evaluation in terms of usability heuristics.

Evidence

N1	N2	A3	A4	M5	M6	E7	E8
Report demonstrates very little understanding, and / or report is substantially reproduced with little mediation by candidate.	Report is substantially produced by the candidate but demonstrates little understanding. Not enough evidence to show understanding. One part of the required response may be completely missing or several parts may be weak.	Describes and provides examples as required to show understanding. Some aspects may be weak or partial.	Describes and provides examples as required to show clear understanding.	Compares, discusses, and evaluates as required to show in depth understanding. Some aspects may be partial or weak.	Compares, discusses, and evaluates as required to clearly show in depth understanding.	Evaluates and suggests improvements to demonstrate comprehensive understanding. Some aspects may be partial or weak.	Evaluates and suggests improvements to clearly demonstrate comprehensive understanding.

N0 = No response; no relevant evidence.

Cut Scores

Not Achieved	Achievement	Achievement with Merit	Achievement with Excellence
0 – 2	3 – 4	5 – 6	7 – 8