GRADE 7 PRE-TECHNICAL STUDIES

MARKING SCHEME & TEACHER'S GUIDE

Total marks: 50

SECTION A: MULTIPLE CHOICE — 20 MARKS

Question	Correct option	Justification
1	A	The project combines technical making, digital recording and selling.
2	D	Pharmacist is not directly represented as a pre-technical career in the source.
3	B	A wet floor presents a slipping hazard.
4	C	Artistic drawing emphasizes ideas, feelings and creativity through freehand work.
5	B	Dashed lines represent hidden edges.
6	B	Safe, suitable tools reduce tool-related accidents.
7	B	O.D. means Outside Diameter.
8	C	Lines slanting at an angle are oblique lines.
9	D	Lowercase curved lettering is not a standard technical lettering style.
10	D	PVC is a plastic material, not rubber.
11	B	The illustrated instrument is an outside caliper.
12	D	Identity theft is not a physical threat to the device.
13	A	Output devices present processed information to the user.
14	A	Mainframe is a computer type/classification.
15	D	Increasing communication cost is not an advantage.
16	B	The camera symbol represents video calling.
17	D	A microphone is an input device.
18	B	Ctrl + A selects all content.
19	A	Consistency is the ability to repeat operations without fatigue.
20	B	Hardware consists of physical, tangible components.

SECTION B: STRUCTURED — 30 MARKS

21(a) — 3 marks

Any three appropriate technical/drawing symbols; 1 mark each.

21(b) — 3 marks

Correct representation of each of the three symbols named in 21(a); 1 mark each.

22 — 3 marks

Any three valid differences, 1 mark each. Examples: artistic drawing emphasizes creativity/expression whereas technical drawing communicates precise technical information; artistic drawing may be freehand whereas technical drawing follows conventions; artistic drawing need not use exact scale whereas technical drawing commonly uses scale and dimensions.

23(a) — 3 marks

Any three valid threats: slippery/wet floor, exposed electrical wires, cluttered pathways, unsafe tool handling, lack of PPE, falling objects, fire hazards, sharp objects, etc.; 1 mark each.