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Department of Education, Sabaragamuwa Pro- Subject-General Information Technology	ment of Education, Sabs	aragamuwa Province/ Weekly Schoo	week- February 4	ient o
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- 1. Draw the symbol of AND logic gate and write the truth table.
- Draw the logic circuit for the following statement.
 F = (A AND B) OR (NOT C)
- 3. Convert the binary number 10101112 into the decimal number. Write steps.
- 4. The following statement is about a computer system. Fill in the blanks using the given words in the brackets.

A		gives the	€	interfa	ce	for	а	user	to u	ıse	the
computer	B.		su	pports	to	the i	resourc	e mana	ageme	nt of	the
computer	C		is	used	to	fulfil	ll the	specific	task	s of	the
user	D	is	an	examp	le fo	or it.					

(Windows 7,Utility programs,Operating systems,Application software,word processing software,Language translator programs)

- 5. It is planned to use a fire protection system with three sensors in a hospital for the protection of the hospital. The three sensors are,
 - A Flame identification sensor
 - B Smoke identification sensor
 - C Temperature identification sensor which is greater than 90°C

At this point the emergency alarm rings when the other two or one activated with the flame identification sensor.

Create the logic circuit and the relevant Boolean statement to represent the above situation.