CHEMISTRY
MARKING SCHEME

SECTION-A (15 MARKS)

1

I	II	III	IV	V	VI	VII	VIII	IX	X
C	C	D	D	A	B	B	B	B	A

(10 marks)

2

I	II	III	IV	V
A	B	C	D	E

(05 marks)

SECTION-B (70 MARKS)

3 (i) Careful and thorough observation
(ii) Accurate recording of what has been recorded.
(iii) Organizing the observed and recorded information.
(iv) Repeating tests to make sure observations are accurate.
(v) Forming conclusions from observations
(vi) Predicting possible outcomes of similar experiments.

Only five @ 2 marks

4 (a) Because it is related to other disciplines (04)
(b) i) Chemistry is ~~closed~~ closely related to agriculture through agro-chemistry.
ii) Chemistry and geology disciplines integrate through agro-chemistry.
iii) Environmental chemistry and atmospheric chemistry are among the fields which provide relationships between chemistry and Environmental Science. @ 02 marks

5 @ Is a statement that explains what to do or not to do in the laboratory. 02½ marks

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(b) i) Appropriately dispose-off any wastes
ii) Do not pour concentrated chemicals into the sink.
iii) Clean up the equipment and store them safely.
iv) Turn off gas and water taps
v) Clean the working surfaces, benches and sinks.
vi) Wash your hands with soap and running water.
only five @ 01½ marks

6 i) Used for sucking in and measuring volumes of liquids or gases.
ii) Used to measure mass of a substance
iii) Used to measure the mass of substances.
iv) Used to measure the weight of an object
v) Used to protect the eyes from chemical spills, strong light and harmful vapour in the laboratory.
@ 02 marks

7 (a) Is an equipment used to put out fire and can be easily moved from one place to another. (02)
(b) i) Remove the safety pin
ii) Hold the discharge hose of the carbon dioxide gas or dry powder and focus at the base of the fire
iii) Squeeze the top lever to release the extinguishing agent
iv) Sweep from side to side until the fire is extinguished.
@ 02 marks

8 i) Used to Improve the quality and quantity of crops and yield respectively
ii) Used to destroy unwanted plants (weeds) which harm the crops
iii) Used to destroy pests that yield low or no yields
iv) Used to protect animal from diseases.
v) Used to Improve animal health. @02 marks

9 (a) This helps to prevent the spread of fire. Open windows can provide more oxygen, this will accelerate fire, allowing it to grow more rapidly (05 marks)
(b) Smoke rises, lying on the floor allows a person to stay below the thickest Concentration of Smoke, Improving visibility and making it easier to breath and find an exit. (05 marks)

SECTION C (15 MARKS)

10 i) Helps in manufacture of medicine to cure sick people
ii) Helps to produce basic human needs like food, shelter and clothes
iii) Helps in manufacture of detergents
iv) It leads to new discoveries.
v) Helps in manufacturing of fuel such as petrol, diesel and Kerosine.
vi) Helps to get proffesional people such as chemistry teacher, doctors and pharmacist.

Only five @ 03 marks.
Total 15 marks

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