

PART B

ESSAY

[100 marks]

2 hours

Answer four questions in all: three questions from Section I and one question from either Section II or Section III.

All questions carry equal marks.

Credit will be given for clarity of expression and orderly presentation of material.

SECTION I

FOR ALL CANDIDATES

Answer three questions from this section.

1. (a) Define each of the following terms and indicate one use of each:

- (i) Nuclear fission;
(ii) Nuclear fusion.

[4 marks]

- (b) Alpha particle emission by $^{235}_{92}\text{U}$ produces an element A. Beta particle emission by the particle A produces another element B. Element B also undergoes alpha particle emission to produce $^{227}_{89}\text{Ac}$. Write balanced equations to represent the above statement.

[4 marks]

- (c) The models below represent the filling of orbitals in an atom.



II

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State which rule(s) is/are violated or obeyed by each model.

[6 marks]

- (d) Explain why the boiling point of H_2S with relative molecular mass of 34 is lower than that of H_2O with relative molecular mass of 18.

[4 marks]

- (e) HCl is passed into each of the following solvents:

- (i) water;
(ii) methylbenzene.

- I. State the effect of each solution on blue litmus paper.
II. Compare the electrical conductivities of the two solutions.

[4 marks]

- (f) Zinc dust is added to copper (II) tetracosulphate (VI) solution.

State (i) what is observed;

(ii) the type of reaction that occurs.

[2 marks]

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Umesh Ramnarain



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