

INSTRUCTIONS: ANSWER QUESTION ONE (COMPULSORY) AND ANY OTHER TWO QUESTIONS.

QUESTION ONE (30 MARKS)

- (a) Highlight the formation of solar system theories. [4 marks]
- (b) Explain geological maps. [5 marks]
- (c) Outline any three groups of rock forming minerals and give examples. [6 marks]
- (d) Explain the importance of geology to construction works. [5 marks]
- (e) Discuss the products of weathering. [10 marks]

QUESTION TWO (20 MARKS)

- (a) Discuss the effects of earthquakes. [10 marks]
- (b) Explain the primary environmental concerns associated with sedimentary rocks. [10 marks]

QUESTION THREE (20 MARKS)

- (a) With the aid of a sketch, explain the rock cycles. [9 marks]
- (b) Highlight the ways that can be used to protect buildings from earthquakes. [5 marks]
- (c) Distinguish between porosity and permeability. [6 marks]

QUESTION FOUR (20 MARKS)

- (a) Explain the effects of stress on rock strength and deformation. [10 marks]
- (b) Distinguish between faulting and folding. [10 marks]

QUESTION FIVE (20 MARKS)

- (a) Explain the tools for studying climate change. [8 marks]
- (b) Discuss the potential effects of global climate change. [12 marks]