NAME………………………………………………………INDEX NO………………………….

SCHOOL……………………………………………...…….CANDIDATE’SSIGNATURE………

DATE…………………………….

312 / 1

GEOGRAPHY

PAPER 1

MARCH / APRIL 2015

2 ¾ HOURS

**KABONDO DIVISION JOINT EVALUATION TEST** *Kenya Certificate of Secondary Education*

**INTRODUCTION TO CANDIDATES**

1. *This paper consist of Section A and B*
2. *Answer All questions in section A .In section B answer question 6 and any other two questions from this section*
3. *All answers must be written on the answer booklet provided*
4. *Candidates should check to the question paper to ensure that all the pages are printed as indicated and that no questions are missing.*

SECTION A (25 MARKKS)

Answer all the questions in this section

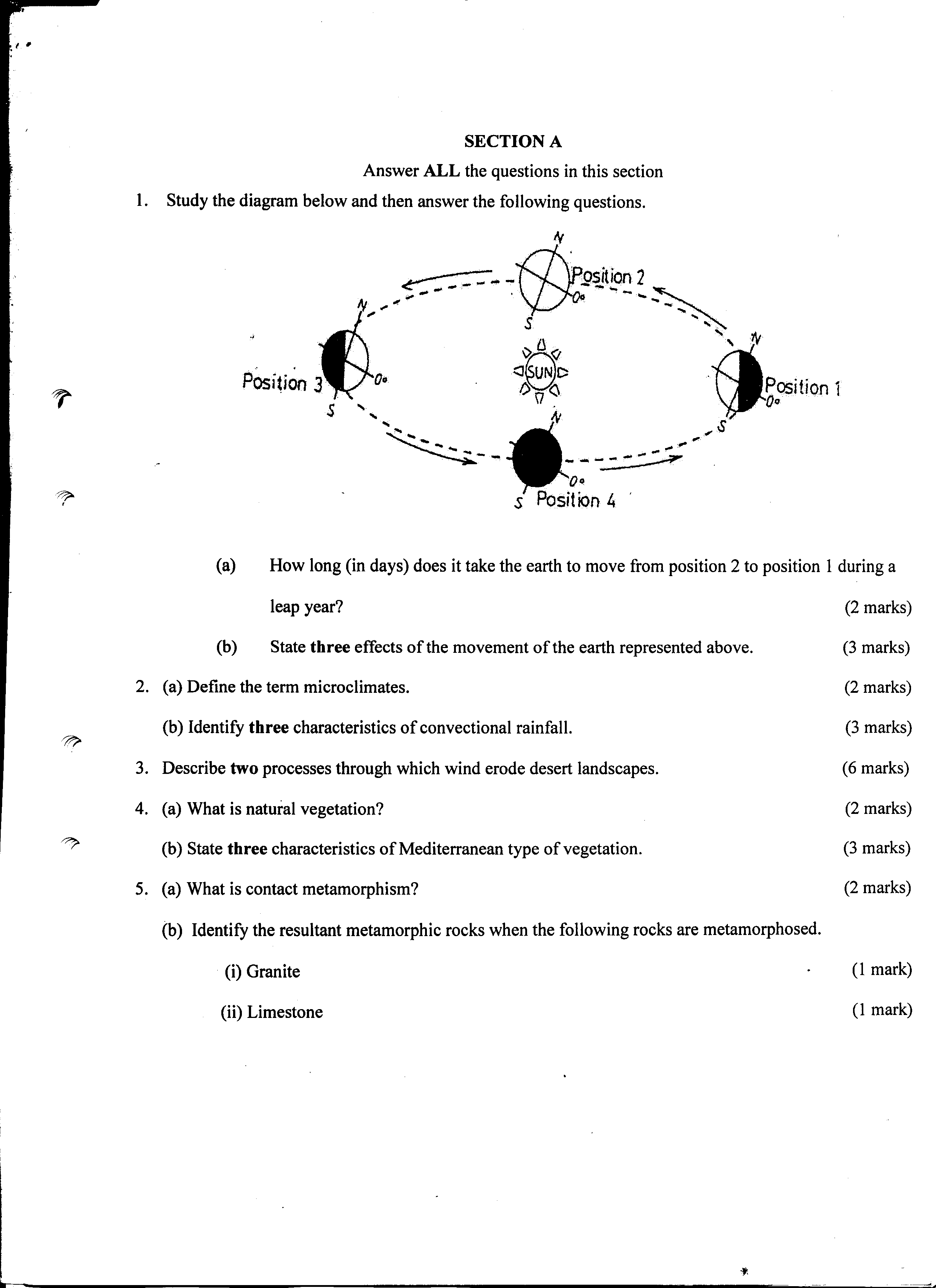
For examiner’s use only

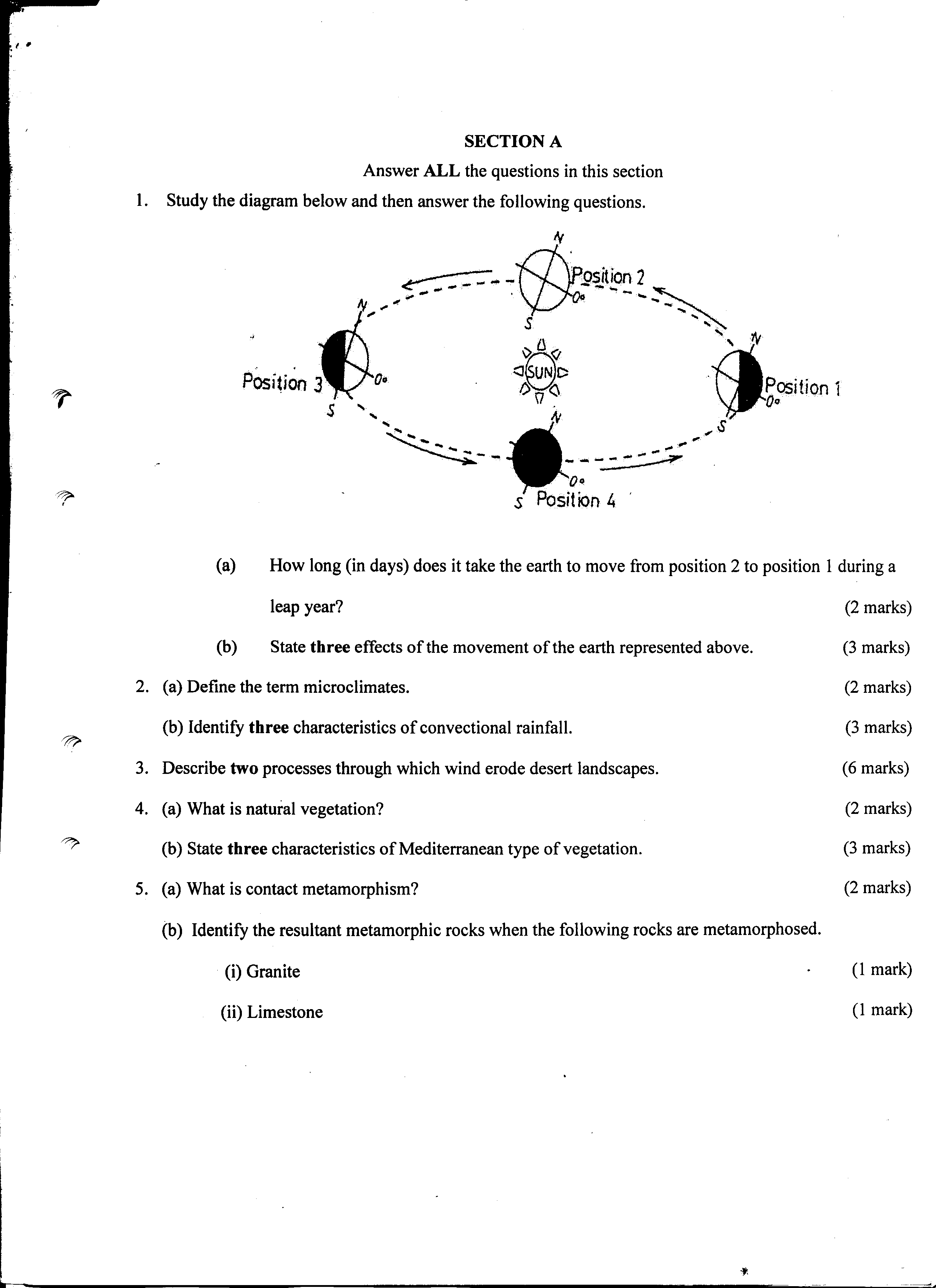
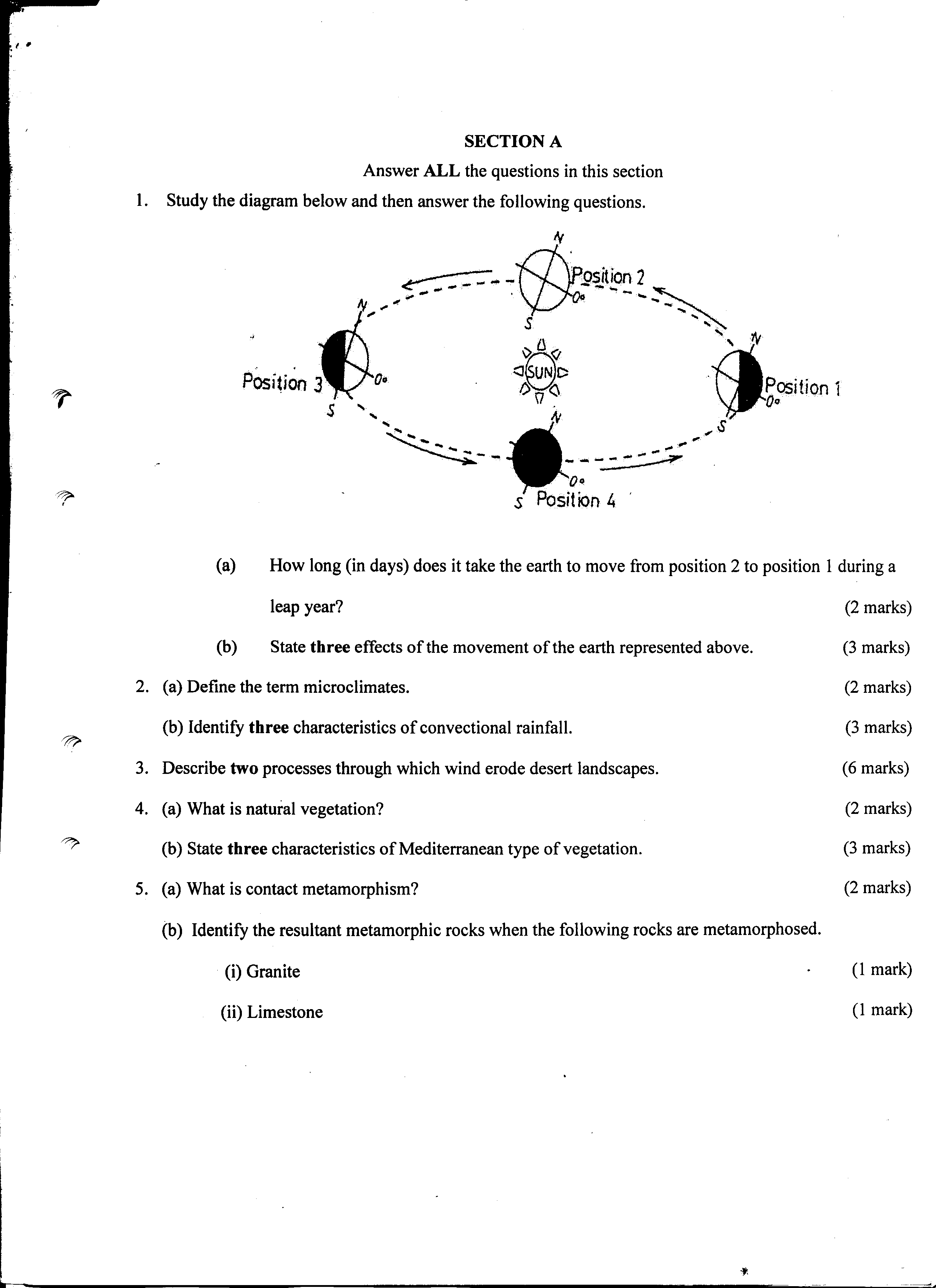
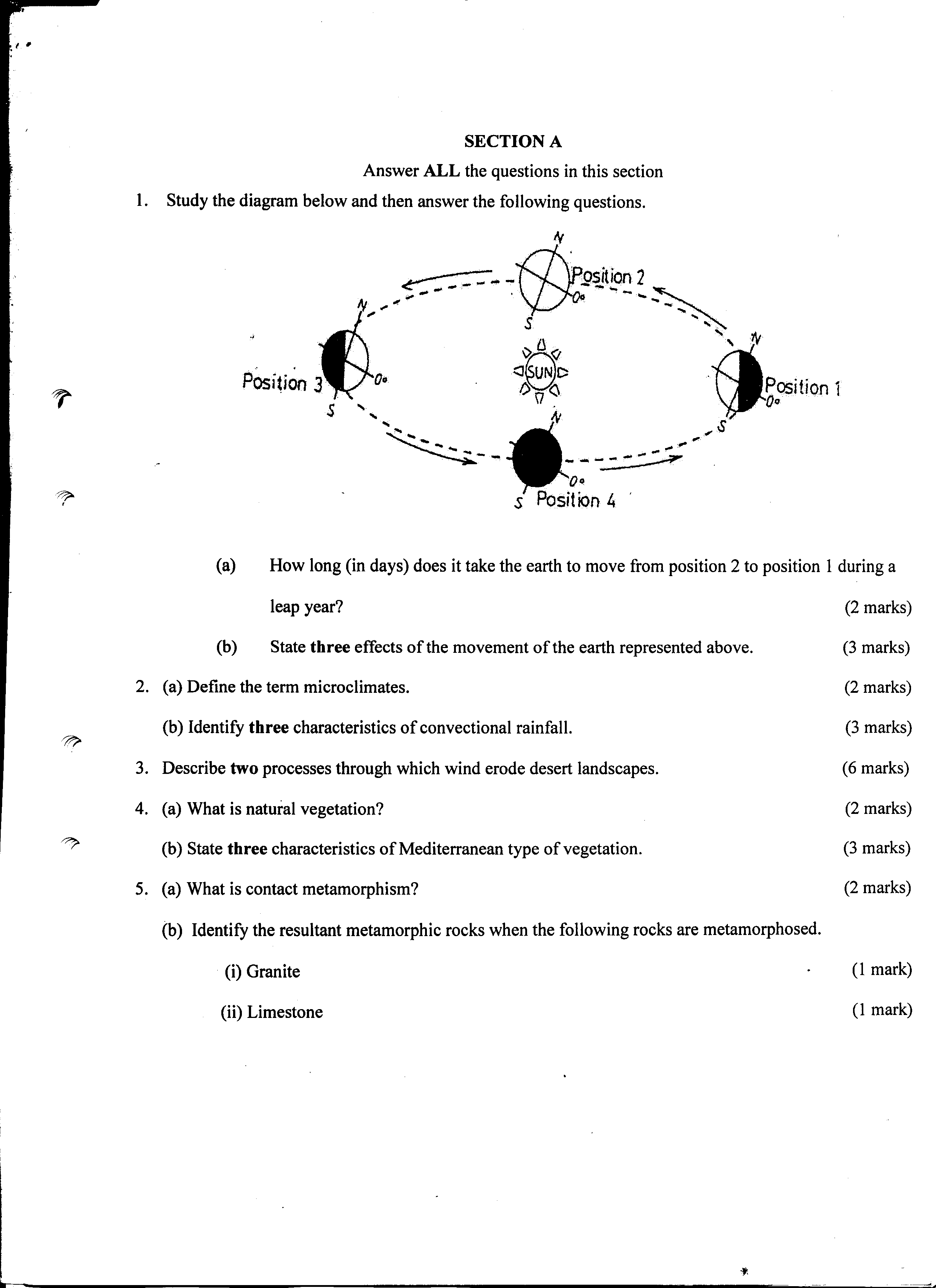
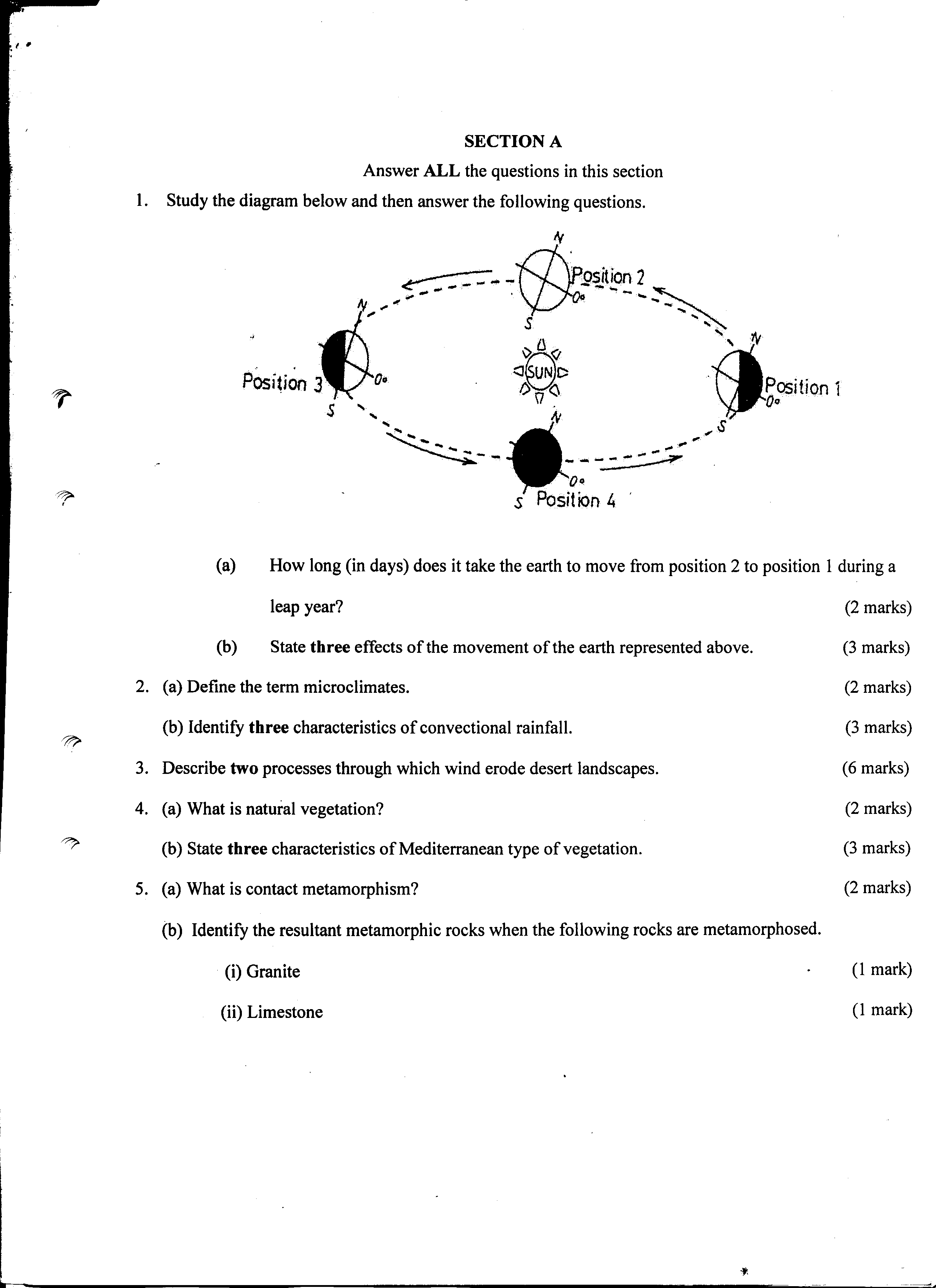
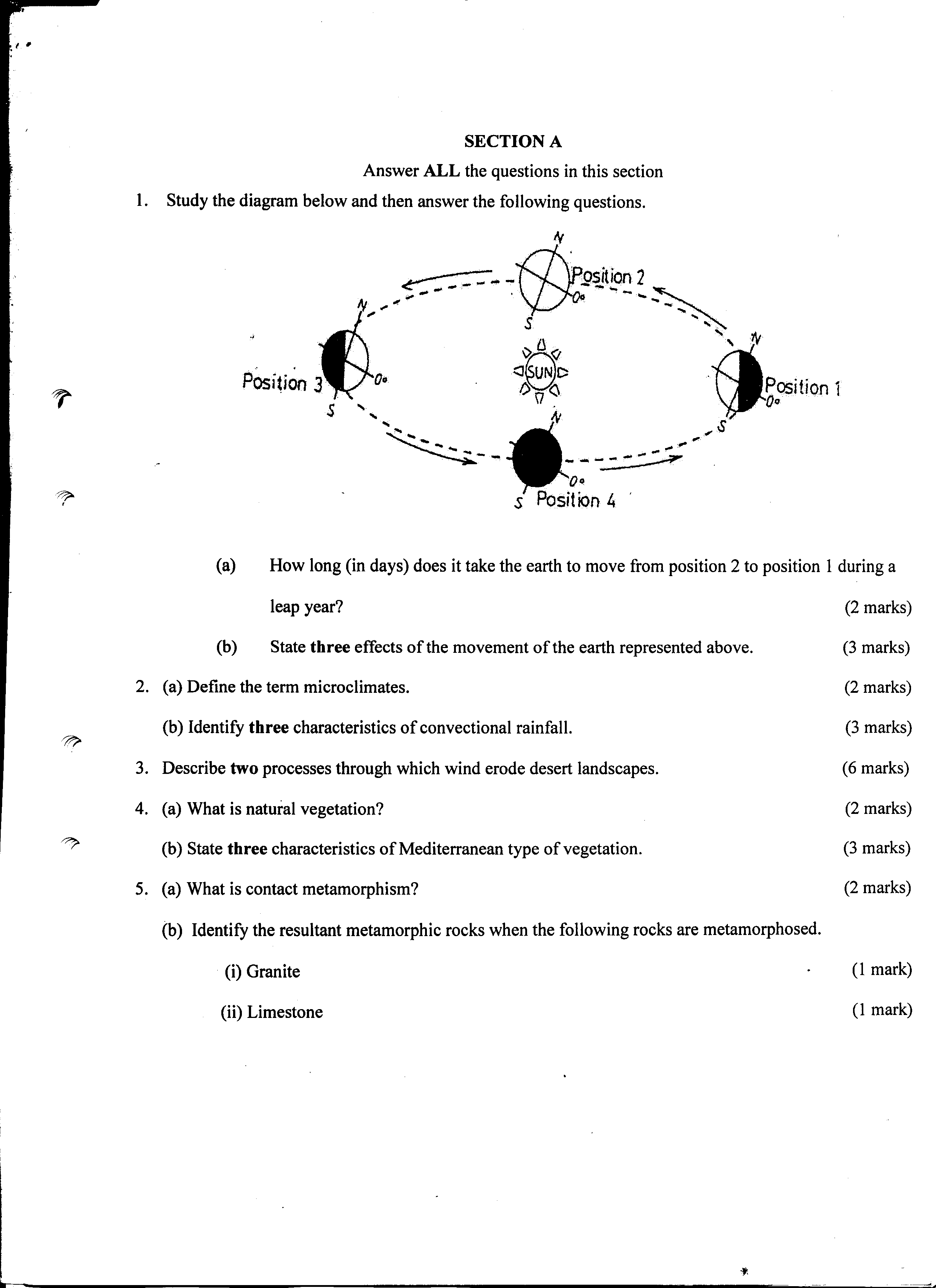
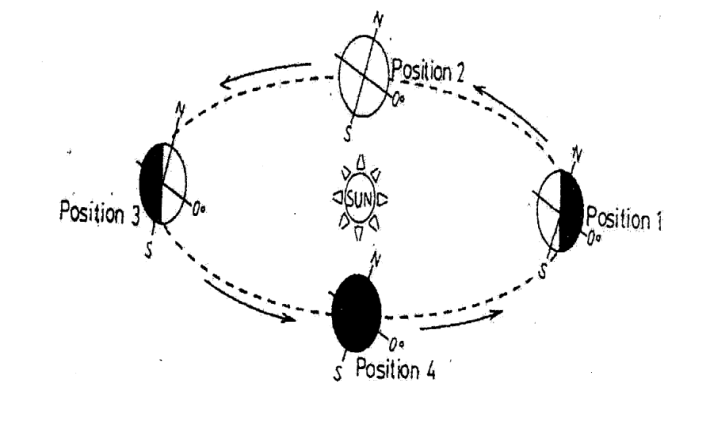
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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Question | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| Marks |  |  |  |  |  |  |  |  |  |  |

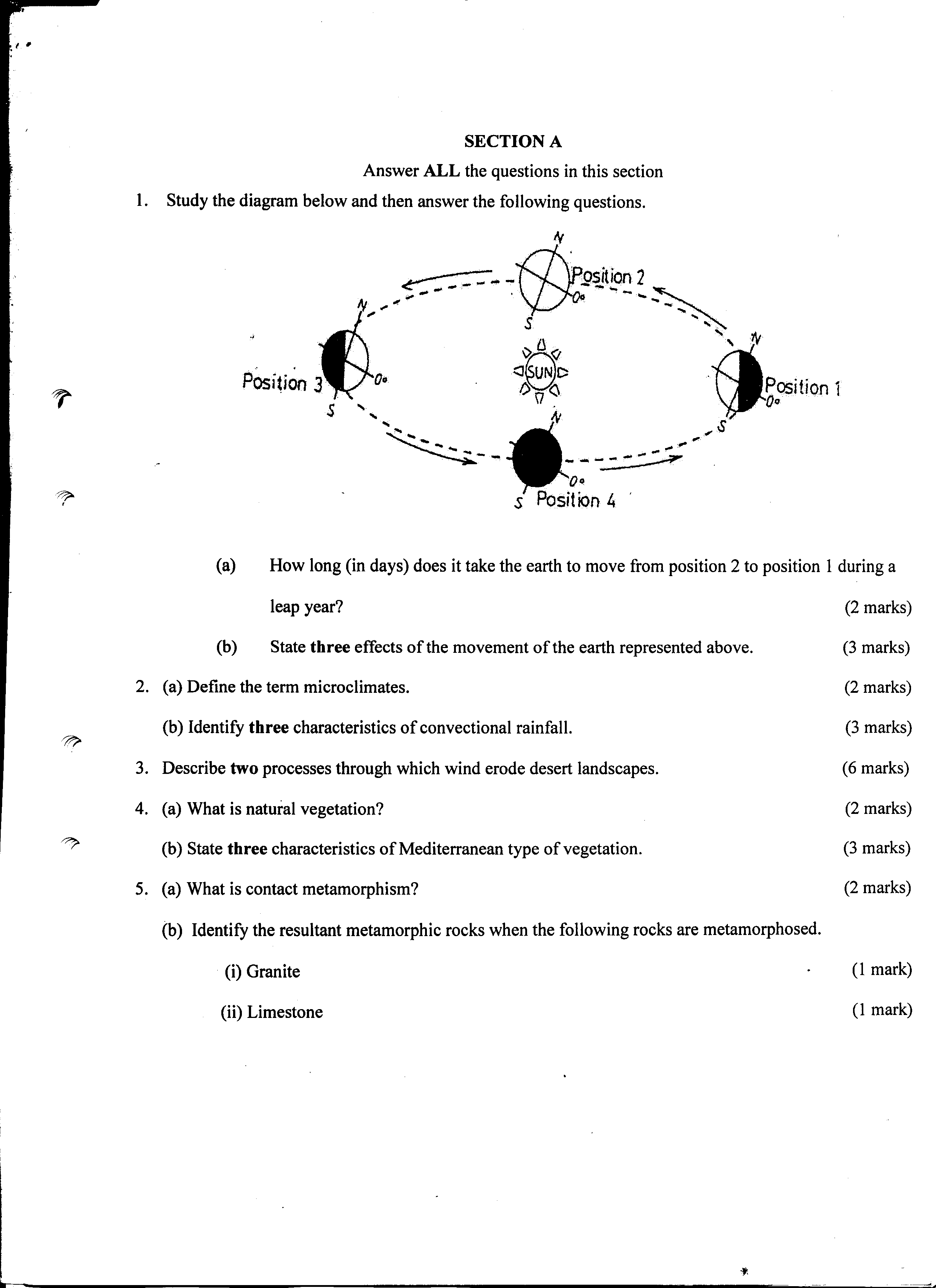
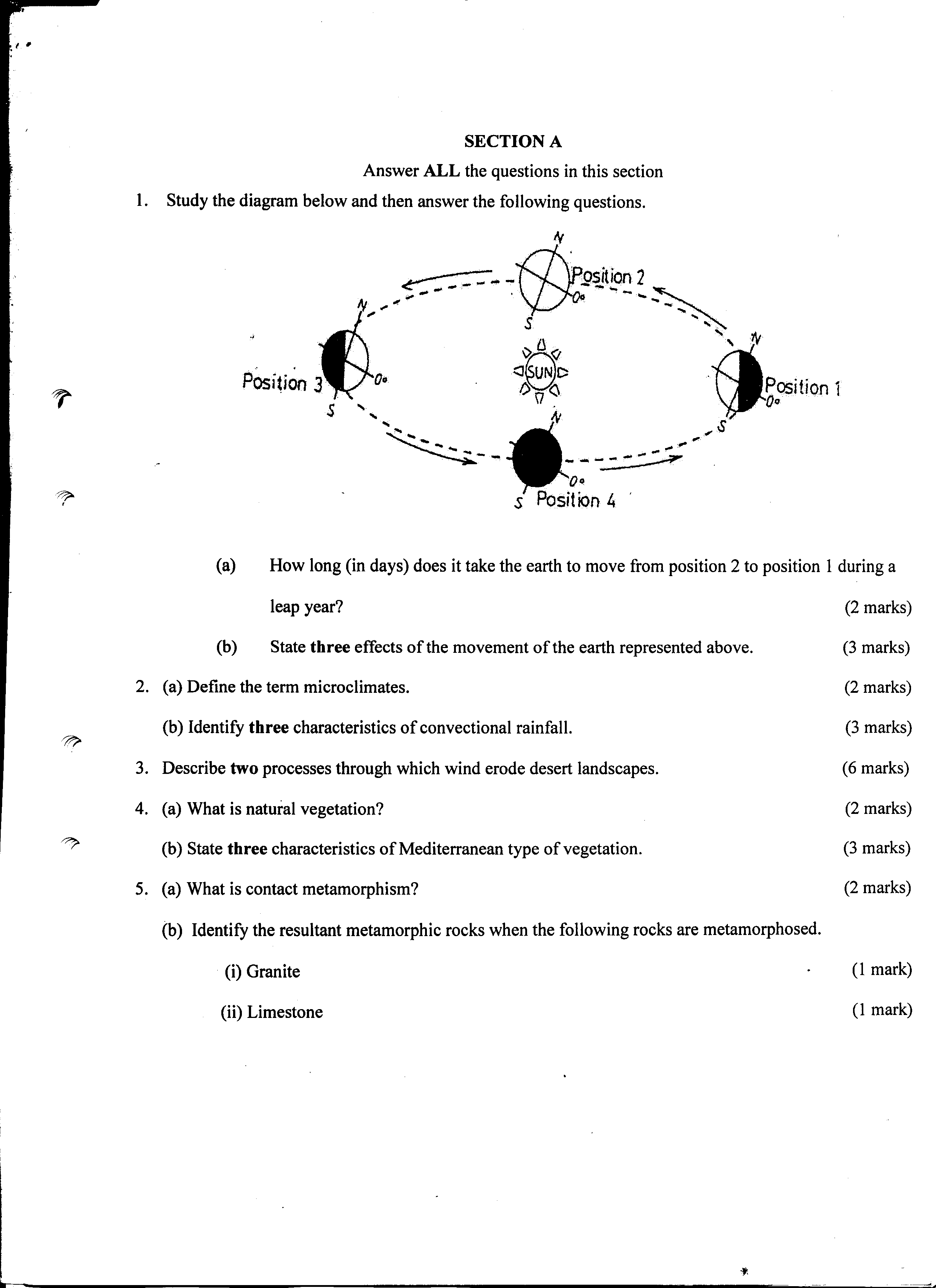
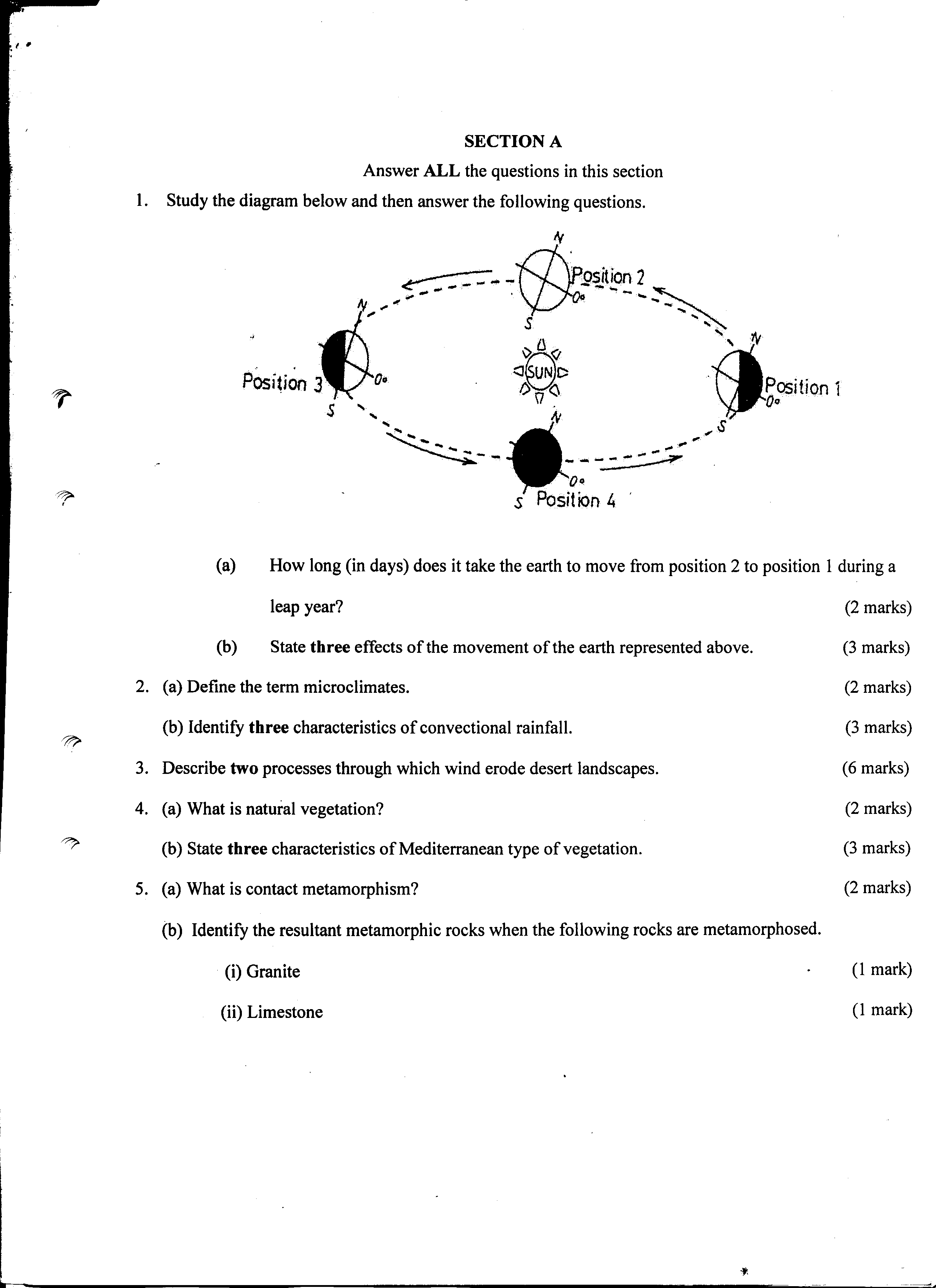
***This paper consists of 4 printed pages. Candidates should check the question paper to ensure that all pages are printed as indicated and no questions are missing.***

**SECTION A**

***Answer ALL the questions in this section***

1. Study the diagram below and then answer the following questions





(a). How long (in days ) does it take the earth to move from position 2 to position 1 during a

leap year? (2mks)

(b). State **three** effects of the movement of the earth represented above (3mks)

1. (a). Define the term microclimates (2mks)

(b). Identify t**hree** characteristics of convectioinal rainfall (3mks)

1. Describe **two** process through which wind erode desert landscape (6mks)
2. (a). What is natural vegetation? (2mks)

(b). State **three** characteristics of Mediterranean type of vegetation (3mks)

1. (a). What is contact metamorphism? (2mks)

(b). Identify the resultant metamorphic rocks when the following rocks are metamorphosed.

(i). Granite (1mk)

(ii) Limestone (1mk)

**SECTION B**

1. Use the map of Migwani(1:50,000)provided to answer the following questions

(a). i) What is the length of the dry weather road from grid square 9278 to the end in grid

square 0083.

Give your answer in kilometers (2mks)

(ii) Calculate the area enclosed by all weather road loose surface and the dry weather road

from grid square 9278 to 0083 in the Northwest part of the area covered by the map.

Give your answer in km2  (3mks)

(b). (i) Give the appropriate height of Kyoom Hill. (2mks)

(ii). Describe the relief of the area covered by the map (4mks)

(c). Citing evidence from the map, Identify four social services offered in Migwani town

(4mks)

(d).( i) Enlarge the area enclosed by Eastings 08 and 11 and Northings 63 and 66 twice

(2mks)

(ii) On the enlarged map mark and name

-Water pipeline

-Dry weather roads

-Water tank

(e). Form four students from Mutitu Secondary School conducted a field study in Mutito

forest. Explain two problems that the students faced while conducting the study that

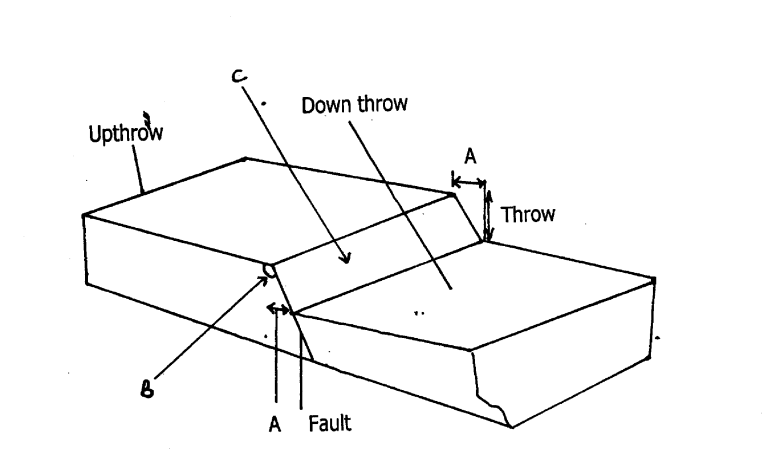
might have led to collection of unreliable data. (4mks)

1. (a). (i). Differentiate between orogenesis and orogeny (2mks)

(ii). Name **two** Fold Mountains of the alpine orogeny (2mks)

**(b). The following diagram represents a faulted landscape. Use it to answer**

**the following questions.**



(i). Name the parts marked A,B and C (3mks)

(ii). Using well labeled diagrams ,Describe how a rift valley is formed through

anticlinal arching (7mks)

(c). State **three** effects of faulting on drainage (3mks)

(d). Explain the effects of Fold Mountains to human activities (8mks)

1. (a) (i). Differentiate between weathering and mass wasting (2mks)

(ii). Identify **three** agents of weathering (3mks)

(b). Describe how the following processes of weathering occur

(i). Pressure release or unloading (4mks)

(ii). Carbonation (3mks)

(c). Explain the significance of weathering to human activities (8mks)

(d). Formfour students from Danish Obara Secondary School conducted a field study on weathering around their school

(i). State **three** preparation they made before the field study (3mks)

(ii). Write down **two** hypotheses they formulated to guide the study (2mks)

1. (a). Distinguish between catchment area and a drainage basin (2mks)

(b) . (i). Describe **two** processes through which a river transport its load (6mks)

(ii). State **four** factors which influence the ability of a river to transport its load(4mks)

(c). Using a well labeled diagram, explain how an ox-bow lake is formed (7mks)

(d). (i). What is the difference between drainage pattern and drainage system? (2mks)

(ii). State **five** importance of rivers to human activities (5mks)

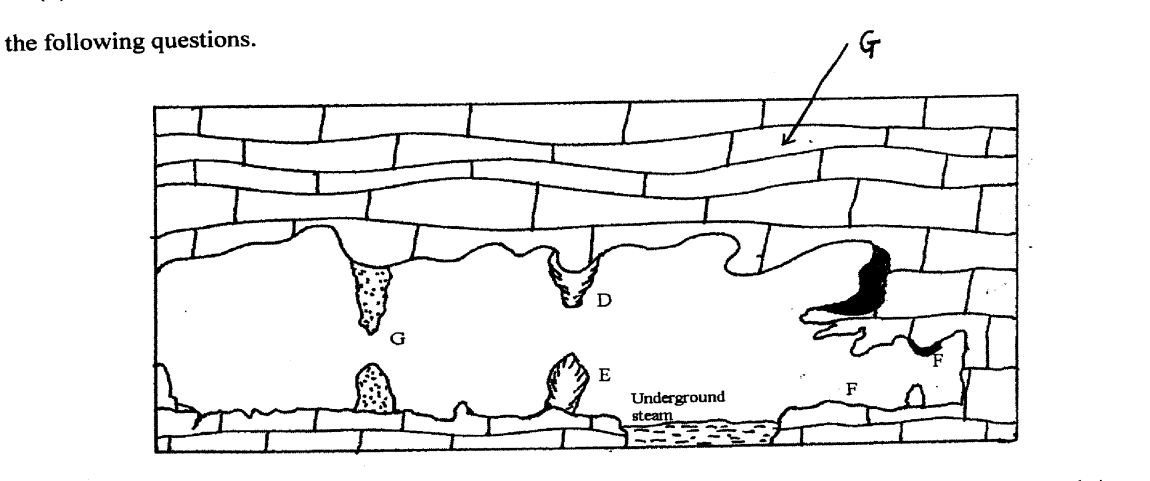
1. (a). (i). Differentiate between an aquifer and an aquifuge (2mks)

(ii). Name **three** sources of underground water (3mks)

(b). State four conditions necessary for the formation of artesian wells (4mks)

(c). (i). Name **four** surface features formed in areas dominated by limestone (3mks)

(ii). The diagram below represents underground features formed in a karsts landscape .Use it to answer the following questions



(i). Name the features marked D,E and G (3mks)

(ii). Describe how a limestone pillar is formed (3mks)

(d). Explain three effects of karst scenery to human activities (6mks)