

- 1.3 Indicate whether each of the statements in COLUMN I applies to A only, B only, both A and B or none of the items in COLUMN II. Write A only, B only, both A and B or none next to the question number (1.3.1 and 1.3.5) on your answer sheet.

| COLUMN I | COLUMN II |
|----------------------------------|--|
| 1.3.1 Effects of deforestation | A reduced absorption of carbon dioxide B oxygen deficiency in water |
| 1.3.2 Disadvantages of dams | A increase seasonal flooding B decreased loss of biodiversity |
| 1.3.3 Causes of ozone depletion | A increase in carbon dioxide concentration in the atmosphere B CFC's |
| 1.3.4 Effects of desertification | A reduced productivity B poverty in local communities |
| 1.3.5 Advantages of GM foods | A some crops are resistant to pests B vegetables have a longer shelf life |

5 × 2 = (10)

- 1.4 The diagram below represents the flower of an Angiosperm plant. Study the diagram and answer the questions that follow.



- 1.4.1 What is the collective name given to parts a, b and c? (1)
- 1.4.2 Is this flower likely to be self-pollinated? Give a reason for your answer. (2)
- 1.4.3 With LETTER represents the part that will develop into a fruit? (1)

- 1.5 Study the graph below of the viral load and CD₄ count in blood taken from an HIV-infected person and then answer the questions below.



- 1.5.1 Discuss the trend of the curve in Graph A. (2)
- 1.5.2 Describe the relationship between Graph A and Graph B. (2)

TOTAL SECTION A: (16)

SECTION B QUESTION 2

- 2.1 The table below shows the number of tuberculosis (TB) cases and the number of deaths from TB around the world in 2009. Use the information in the table to answer the questions that follow.

| Region | Number of cases (1 000's) | Number of deaths (1 000's) |
|-----------------------|------------------------------|-------------------------------|
| Africa | 3 600 | 400 |
| The Americas | 700 | 70 |
| Eastern Mediterranean | 1 000 | 90 |
| Europe | 580 | 82 |
| South-East Asia | 4 900 | 480 |
| Western Pacific | 7 900 | 240 |
| Global total | 14 000 | 1 300 |

- 2.1.1 What type of micro-organism causes TB? (1)
- 2.1.2 What type of medication is used to treat and cure TB? (1)
- 2.1.3 Work out the percentage of cases in Africa in terms of the global total. Show all your calculations. (2)
- 2.1.4 Which country had the highest number of deaths from TB in 2009? (1)
- 2.1.5 Suggest and explain reasons for the high number of TB cases in Africa in 2009. (2)
- 2.1.6 Give ONE symptom of TB. (1)

(16)

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web rz it is based on 10 points within one sampling length mean distance between 5 highest peaks 5 lowest valleys within the sampling length measured perpendicular to the baseline of the chart ra roughness average or cla centre line average correlation between roughness average ra and total roughness rt

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web jan 14 2020 1 2k views 3 years ago roughness ra vs rz roughness since there is no mathematical relationship between rmax and ra and rz and ra an often necessary assignment of ra to rz and

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web feb 3 2009 i always receive the surface roughness measurement in rmax but our company use ra method are there any conversion factor to convert rmax to ra or vice versa i find all the handbooks in our library but no answer

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web usage note a direct allocation of an rz value to a roughness grade is not possible due to the conversion interval in this rz ra calculator the input rz value is first converted to the average value of the ra interval and the n class is determined based on this value

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web rmax vertical distance from highest peak to lowest valley rmax is particularly sensitive to anomalies such as scratches and burrs that may not be obvious from measures such as ra that rely on averages rz preferred by many europeans rz is often preferred to ra in europe and particularly germany

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web r z m i n 3 8 r a 0 95 r z m a x 14 5 r a 0 75 converting between ra and rz is not a good engineering practice it is always recommended to measure according to the method in which surface roughness is indicated on the drawing as you can see in the below graphs the inaccuracy grows in higher r a r z values

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web nov 11 2021 surface finish conversion chart in this section there s a table for the surface finish conversion chart this table compares the different surface roughness scales for manufacturing processes meanwhile let s go through some of the abbreviations you ll find there ra roughness average rms root mean square cla center line

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web ra roughness average in micrometers or microinches rms root mean square in microinches cla center line average in microinches rt roughness total in microns n new iso grade scale numbers cut off length length required for sample

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