

Case 4

Question 1 (written by Joe Edwards)

FIGURE 6 shows the results of the FBC of patient presenting with fatigue.

Test name	Result observed	Units	Reference interval
HGB	109	g/L	125-175
HCT	0.33	L/L	0.38-0.54
RBC	3.0	$\times 10^{12}$ /L	4.2-6.5
MCV	109	fL	80-100
WCC	3.5	$\times 10^9$ /L	3.5-10.0
• Neutrophils	1.65	$\times 10^9$ /L	1.5-6.5
• Lymphocytes	1.20	$\times 10^9$ /L	0.8-4.0
• Monocytes	0.50	$\times 10^9$ /L	0-0.9
• Eosinophils	0.05	$\times 10^9$ /L	0-0.6
• Basophils	0.10	$\times 10^9$ /L	0-0.15

FIGURE 6

a) State two signs and two symptoms of anaemia, other than fatigue. [2]

b) Using the data, suggest two possible causes of this patient's anaemia. Explain your reasoning. [2]

c) State two other differentials that may cause fatigue and explain why these are important to consider even given this FBC result. [2]

Medical Education Society: A100 Year 1 Practice SAP Questions

Question 2 (written by Joe Edwards)

A 60 year old patient engages with a bowel cancer screening programme and attends their GP surgery to discuss the results.

- a) State two of the general criteria this screening test should have met before use. [2]

The patient is identified as having occult bleeding, and undergoes a colonoscopy in which a benign colorectal adenoma is diagnosed and removed.

- b) Describe two of the features of a benign adenoma which allow differentiation from a malignant neoplasm. [2]

- c) Describe the pathological progression that the adenoma may have undergone if not removed. [3]
