

2017 USGO Written Examination - Key and Marking Scheme (Middle School)

Section 1 [10 marks]

Grading notes: Questions 1 and 2 are point marked, question 3 is level marked.

Expected answers:

1. [4 marks] India; India; women, men
2. [3 marks] the Baby Boom; the end of World War II and the associated prosperity and stability of the post-war period led to an increase in the marriage and birth rates [other reasonable answers accepted; partial credit should be awarded for any partial correct answer]
3. [3 marks] based on the graph, the population growth of the United States is negative (birth rate below replacement) or very low; when the bottom of a population pyramid is smaller than the middle (i.e. women of childbearing age), this indicates declining population. (n.b. The population of the US is actually growing at a moderate rate despite a birth rate below replacement because of immigration. Students may refer to this in their answer.) [other reasonable answers accepted; partial credit should be awarded for any partial correct answer]

Section 2 [14 marks]

Grading notes: Questions 1 and 2 are point marked; questions 3 and 4 are level marked.

Expected answers:

1. [4 marks] Ireland and Great Britain [accept in either order]; London and Edinburgh [accept in either order]
2. [6 marks] Lake Vyrnwy - 10; 17; 6 [accept +/- one degree]; London - 11; 20; 11 [accept +/- one degree]
3. [2 marks] The temperature difference is due to altitude [accept reasonable equivalents]
4. [2 marks] The temperature difference is due to latitude (i.e. Edinburgh is north of London) [accept reasonable equivalents]

Section 3 [16 marks]

Grading notes: Questions 1-3 are level marked; question 4 is point marked.

Expected answers:

1. [4 marks] Deposition occurs from rivers entering the sea and from sediment suspended in the sea. Layers of sediment are built up on the seafloor and compaction and sedimentation lead to these sediments forming rocks. Rock type - sedimentary [other reasonable answers accepted; partial credit for any partial correct answer]

2. [4 marks] Rocks come under intense pressure and heat and this leads to melting of the rocks. The less dense material forms magma chambers or rises to the surface in the form of volcanoes or igneous intrusions. Rock type - igneous [other reasonable answers accepted; partial credit for any partial correct answer]

3. [4 marks] At destructive plate boundaries one plate is subducted beneath another. At depth the plate is put under great pressure and subject to great heat. Rock type - metamorphic [other reasonable answers accepted; partial credit for any partial correct answer]

4. [4 marks] igneous; sedimentary; igneous; metamorphic

Section 4 [7 marks]

Grading notes: Both questions in this section were point marked.

Expected answers:

1. [5 marks] stack; cave; arch; platform; stump

2. [2 marks] (coastal) erosion; UK (the photograph is of Harry's Rocks in Dorset, England) [accept England, United Kingdom or Great Britain]

Section 5 [8 marks]

Grading notes: Question 1 is point marked, questions 2 and 3 are level marked.

Expected answers:

1. [4 marks] 3+ times daily; no service; 6+ times daily; daily
2. [2 marks] Far less passenger rail service in 2005 than 1965; any answers about the increasing popularity of automobiles, the construction of interstate highways, the proliferation and increasing affordability of air travel should be accepted. [other reasonable answers accepted; partial credit for any partial correct answer]
3. [2 marks] Northeast Corridor (Boston-NY-DC), Chicago-Milwaukee, areas of California; these are usually areas with high ridership, densely populated, often with multiple large / moderate sized cities fairly close together along the same route, usually profitable for Amtrak [other reasonable answers accepted; partial credit for any partial correct answer]