

2022 USGC Nationals Written Examination - Key and Marking Scheme

Section 1 – Global Supply Chain [30 marks]

Expected answers:

1. [6 marks] answers may vary, but should include pandemic-related issues like quarantines and testing requirements for ship crews and workers, travel restrictions, and illness; reference could also be made to the wide array of sources for parts and components for the manufacturing of complex devices or products and the overall difficulty of shipping those goods during the pandemic; in addition inventories of crucial raw materials and supplies, as well as finished good continued to shrink during the pandemic, and many manufacturers and retailers misjudged demand for their products as the pandemic began [other reasonable answers accepted]
2. [2 marks per answer] shrinking supply chains – sourcing goods from domestic suppliers or regional suppliers that would be less effected by disruptions like a pandemic; streamlining operations – making the most efficient use of current available materials and managing future operations to account for potential disruptions; promoting the growth of domestic supplies of parts like semiconductors and batteries, as well as investment in extractive industries to supply raw materials [other reasonable answers accepted]
3. [6 marks] answers may vary widely for this question – some examples are mentioned in the prompt, and others might include video game consoles and cars; reasonable answers should include reference to supply and demand and should discuss specific remedies taken by companies or manufacturers or reasons why demand for these products stabilized later in the pandemic [reasonable answers accepted]
4. [2 marks per answer] standardization of size; durability; ease of transport; ease of loading / unloading ships; widespread cross-compatibility with other ships, tricks, etc. [other reasonable answers accepted]
5. [2 marks per answer] the Panama Canal is more narrow than the Suez Canal; ships are limited by the height of bridges, particularly the Bridge of the Americas; ships are limited by the depth of the water; ships are limited by the width and length of the locks [other reasonable answers accepted]

Section 2 - Historical Geography [20 marks]

Expected answers:

1. [20 marks]

Section 3 – Plate Tectonics and Volcanism [30 marks]

Expected answers:

1. [1 mark per answer – 12 marks total]
convergent plate boundary – 2 or 7
divergent plate boundary – 3
transform plate boundary – 10
a shield volcano – 6
a stratovolcano – 5
a continental rift zone – 4
the most likely location of a shallow earthquake – 12 or 7
the most likely location of a deep earthquake – 11
the lithosphere – 8
the asthenosphere – 9
an oceanic trench – 7
a volcanic arc – 1
2. [1 mark per answer – 6 marks total]

the Aleutian Islands – convergent
the North Anatolian Fault – transform
the Galapagos Rise – divergent
the Mariana Trench – convergent
the Mid-Atlantic Ridge – divergent
the Dead Sea Rift – transform

3. [6 marks]

4. [1 mark per answer – 2 marks total] the Cascadia Subduction Zone in the Pacific Northwest; the eruption of Mount St. Helens in 1980

5. [4 marks]

Section 4 - Glaciers [15 marks]

Expected answers:

1. [1 mark per answer – 8 marks total]

kettle lakes – 7

outwash plain – 9

recessional moraine – 3

drumlins – 6

esker – 5

ground moraine – 1

terminal moraine – 8

kame – 2

2. [4 marks]

3. [4 marks]

4. [4 marks]