



International Geography Championships

2022 Battery Examination - Part 4

Name _____

School _____

Grade _____

Instructions – Mark your answers on the scantron provided. Correct answers are worth 2 points. Incorrect answers are worth –1 point. Questions left blank are worth 0 points.

Questions 1-10 are about volcanic landforms.

1. High islands are formed by volcanic action while the formation of low islands is related to which of these?

- A. earthquakes
- B. tides
- C. coral reefs
- D. construction by humans

2. Which of these is a high island?

- A. Niue
- B. Stromboli
- C. Nauru
- D. Henderson Island

3. A guyot is a volcanic mountain in which of the following locations?

- A. near the poles
- B. at the Equator
- C. underwater
- D. found only in Indonesia

4. Which of these is NOT true of mid-ocean ridges?

- A. their formation is slowly causing sea levels to fall throughout the world
- B. they are formed by plate tectonics
- C. they are sites where seafloor spreading is taking place
- D. they form at divergent plate boundaries

5. The first mid-ocean ridge was discovered in which of these oceans?

- A. Indian
- B. Atlantic
- C. Arctic
- D. Pacific

6. Hell's Half Acre, the Boring field, and the Harrat Rahat in Saudi Arabia are examples of what type of volcanic landform?

- A. a cinder cone
- B. a lava field
- C. a volcanic neck
- D. wall rocks

7. Which of these is the largest volcanic crater lake in the world?

- A. Lake Tanginika
- B. Lake Superior
- C. Lake Toba
- D. Lake Baikal

8. Which of these is NOT true of geysers?

- A. they involve intermittent discharge of water and steam
- B. their characteristic effect is due to proximity to magma
- C. they only occur in a few places on Earth
- D. only a few geysers are located in active volcanic areas

9. The only geyser field in Eurasia is the Valley of Geysers on the Kamchatka Peninsula in what country?

- A. Russia
- B. China
- C. India
- D. Japan

10. Which of these is large cauldron-like hollow that forms after a volcanic eruption?

- A. cinder cone
- B. caldera
- C. fissure vent
- D. parasitic cone

Questions 11-20 are about lakes.

11. Which of these is NOT true of lakes?

- A. they are surrounded by land
- B. they are not part of the ocean
- C. they must be bodies of freshwater
- D. they are part of the water cycle

12. Which of these distinguishes lagoons from lakes?

- A. lagoons are always larger
- B. lagoons are at higher altitudes
- C. lagoons only have water part of the year
- D. lagoons are usually coastal parts of the ocean or connected to the ocean

13. Most lakes in the world are found in which of these locations?

- A. in Asia
- B. near the equator
- C. in the Northern Hemisphere at higher latitudes
- D. within forests

14. It is estimated that Canada has roughly how many lakes?
- 2 million
 - 100,000
 - 10,000
 - 2,000
15. Lonar Lake in India, Lake Manicouagan in Canada, and Lake Bosumtwi in Ghana are large and rare lakes that have formed in what unusual place?
- underground
 - in the middle of deserts
 - in meteor impact craters
 - at the sites of abandoned mines
16. Solution lakes, formed from dissolution of bedrock, are often found in what type of environment?
- in areas of karst topography
 - near volcanoes
 - under glaciers
 - in otherwise arid climates like the American Southwest
17. Which of these, with a distinct curved shape, is often formed as a result of meandering rivers?
- finger lakes
 - oxbow lakes
 - beaded lakes
 - plunge pools
18. Rift lakes are formed as a result of which of these?
- volcanoes
 - rivers
 - glaciers
 - tectonic action
19. Which of these is an example of a rift lake?
- Lake Baikal
 - Lake Huron
 - Lake Superior
 - Lake Ontario
20. Which of these is NOT a man-made lake?
- Lake Nasser
 - Lake Kariba
 - the Aral Sea
 - Lake Volta
21. Which of these best describes hierarchical diffusion?
- the spread of ideas between friends and families
 - the prevention of the spreading of ideas
 - the failure to spread ideas to new populations
 - the spread of ideas from people of authority to others of lower standing
22. Which of these has been the most successful solution to global distance decay?
- railroads
 - highway systems
 - the Internet
 - canals
23. A place that exists as part of cultural identity rather than geographic models is known as which of the following?
- formal region
 - vernacular region
 - functional region
 - compressed region
24. Which of the following is an example of possibilism?
- snow skiing in Dubai
 - kayaking in the Amazon River
 - hiking on the Inca Trail
 - snorkeling in the Maldives
25. Spatial analysis studies which of the following?
- the evolution of technology
 - patterns of human behavior
 - surveying of hurricanes
 - the spread of disease
26. Which of the following best defines topography?
- the arrangement of an area's physical features
 - the pattern of an area's settlement
 - the relationship between a population and its access to resources
 - the distribution of an area's infrastructure
27. Contour lines are used to display which of the following on a map?
- area
 - volume
 - density
 - elevation
28. What type of map is mostly commonly used to demonstrate density of a population?
- physical maps
 - topographic maps
 - dot density maps
 - political maps
29. What type of map distorts geography in order to convey some variable?
- navigational chart
 - thematic map
 - geologic map
 - cartogram

Questions 21-30 are about geographical concepts.

30. Global Positioning Systems are used for what purpose?
- A. negotiation
 - B. navigation
 - C. commerce
 - D. substitution

Questions 31-40 are about culture and religion.

31. Shintoism displays aspects of all of the following belief systems EXCEPT which of these?
- A. polytheism
 - B. animism
 - C. atheism
 - D. ritualism
32. Which of the following best describes the process of syncretism?
- A. the revival of ancient culture to improve society
 - B. the combining of two or more religions to create a new belief system
 - C. the infusion of religion into public education systems
 - D. the appointment of a new religious leader

33. What two faiths influenced the foundation of Sikhism?
- A. Hinduism and Islam
 - B. Islam and Christianity
 - C. Christianity and Buddhism
 - D. Buddhism and Hinduism

34. Which of these nations has the highest percentage of Muslims today?
- A. USA
 - B. Australia
 - C. Thailand
 - D. Indonesia

35. The presence of African religious traditions in the Americas can be attributed to which of these?
- A. Indian Ocean Trade
 - B. Atlantic Slave Trade
 - C. Trans-Saharan Trade
 - D. the Silk Road

36. Which of these Bantu languages has the largest total number of speakers?
- A. Spanish
 - B. Swahili
 - C. Javanese
 - D. Telugu

37. Which of the following has the most first language speakers in the world?
- A. Mandarin
 - B. Dutch
 - C. Italian
 - D. Marathi

38. Which of the following is the cultural hearth of Judaism, Christianity, and Islam?
- A. Western Europe
 - B. Southeast Asia
 - C. Central America
 - D. the Middle East

39. The architecture of Mexican churches is largely influenced by the culture of what former colonizer?
- A. England
 - B. France
 - C. Spain
 - D. Netherlands

40. Although considered a dead language, which of these is still an official language of Vatican City?
- A. Sudanese
 - B. Hindi
 - C. Polish
 - D. Latin

Questions 41-50 are about climate.

41. Sinking cities, which are urban environments in danger of disappearing due to rapidly changing landscapes, are almost all located in which of these areas?
- A. mountain valleys
 - B. in Eastern Africa
 - C. coastal lowlands
 - D. in Western North America

42. Which of these is NOT a factor causing risk to sinking cities?
- A. advances in building techniques
 - B. sea level rise
 - C. land subsidence
 - D. accelerated urbanization

43. Which of these is NOT a consequence of land subsidence on coastal cities?
- A. increased risk of wildfires
 - B. increased risk of flooding
 - C. damage to roads and highways
 - D. damage to buildings

44. Which of these is a major environmental cause of land subsidence in major cities, particularly in Asia?
- A. hurricanes
 - B. the weight of people
 - C. extraction of groundwater leading to compression of the soil
 - D. tornadoes

45. People who are displaced due to sudden or long-term changes in their weather or climate are known by what term?
- A. internally displaced person
 - B. development-induced migrant
 - C. asylum seeker
 - D. environmental migrant

46. Which of these climate phenomena is NOT currently responsible for widespread migration?
- A. disruption of seasonal weather patterns like monsoons
 - B. sea level rise
 - C. earthquakes
 - D. drought

47. Which of these is NOT a negative impact of global warming on human populations?
- A. increased exposure to heatwaves and deaths from excessive heat
 - B. a potential increase in infectious diseases, especially those carried by mosquitoes
 - C. decreased birth rates
 - D. food insecurity and undernourishment

48. Roughly how many people currently live in areas with regular water security issues?
- A. less than 100,000
 - B. about 1 million
 - C. about 10 million
 - D. about 2 billion

49. If global warming would reach 4° F, the number of people across the world experiencing water insecurity would change by roughly what percentage?
- A. it would decrease by 25%
 - B. it would increase by 100%
 - C. it would increase by 10%
 - D. global warming would have no measurable effect on water insecurity

50. Which of these is NOT true of the impact of climate change on the water cycle?
- A. total amount of freshwater available can change
 - B. there will be changes in the frequency, magnitude and timing of floods
 - C. snowfall will increase across the globe
 - D. evaporation will increase

Questions 51-60 are about population and demographics.

51. Which of the following is NOT considered a cause of lower birth and death rates in a nation?
- A. increased access to education
 - B. increased access to healthcare
 - C. increased economic instability
 - D. increased access to food supplies

52. The economic success and resulting job opportunities in the US are examples of which of the following migration factors?
- A. pull factor
 - B. run factor
 - C. go factor
 - D. move factor

53. What percentage of the world's population lives on the continent of Asia?
- A. 20%
 - B. 40%
 - C. 60%
 - D. 80%

54. A population pyramid with a large base indicates which of the following about a nation?
- A. The nation is a colony of another nation.
 - B. It's a developing nation.
 - C. The nation has a service-based industry.
 - D. It's a developed nation.

55. Japan has invested millions of dollars into pro-natalist programs that have what function?
- A. to encourage people to have more children
 - B. to encourage people to apply for jobs
 - C. to encourage people to cultivate crops
 - D. to encourage people to adopt pets

56. The sex ratio is measured using which of the following?
- A. number of males per 10 females
 - B. number of males per 100 females
 - C. number of males per 1,000 females
 - D. number of males per 10,000 females

57. What correlation exists between developed nations and life expectancy?
- A. Developed nations have the lowest life expectancies.
 - B. Developed nation has lower life expectancies than developing nations.
 - C. Developed nations have the highest life expectancies.
 - D. Developed nations do not have a measurement of life expectancies.

58. Which of these has the highest fertility rates in the world?
- A. Western Europe
 - B. East Asia
 - C. North America
 - D. Africa

59. People moving to a specific location because members of a similar background have already moved there is what type of migration?
- A. personal migration
 - B. open migration
 - C. central migration
 - D. chain migration

60. Which of these is a stage 2 nation on the Demographic Transition Model?
- A. United Kingdom
 - B. Niger
 - C. Portugal
 - D. Argentina

Questions 61-70 are about mass wasting and landslides.

61. Mass wasting involves the movement of rocks and soil down slopes due to which of these?

- A. gravity
- B. wind
- C. ice
- D. intentional human transport

62. Which of these is NOT a type of mass wasting?

- A. landslides
- B. rockfalls
- C. dredging
- D. creep

63. Solifluction is a type of mass wasting that generally takes place due to freezing and thawing cycles in what biome?

- A. desert
- B. temperate rainforests
- C. savannah
- D. tundra

64. Which of these is NOT a natural cause of mass wasting?

- A. faults that weaken the rock
- B. climate
- C. stratigraphy, especially alternating layers of strong and weak rock
- D. wind events like tornadoes

65. Which of these is a manmade cause of mass wasting?

- A. overburden from buildings
- B. hurricanes
- C. floods
- D. erosion

66. Which of these is NOT a method to control mass wasting?

- A. planting trees or vegetation
- B. increased construction of roads along hillsides
- C. construction of fences or walls to contain debris
- D. improving drainage

67. Soil liquefaction, a major cause of landslides, is usually tied to which of these natural phenomena?

- A. earthquakes
- B. tornadoes
- C. windstorms
- D. supercell thunderstorms

68. Which of these is NOT an area where landslides can occur?

- A. on underwater mountains or volcanoes
- B. on cliffs
- C. in flat areas
- D. on steep hillsides

69. Changes in LULC (land use and land cover) like abandoning farmland can cause landslides due to which of these?

- A. increasing the frequency and severity of erosion
- B. causing vibrations
- C. increasing the amount of rainfall
- D. increasing the amount of traffic in the area

70. Which of these is similar to a landslide but involves the transport of ice and snow?

- A. pyroclastic flow
- B. avalanche
- C. huayco
- D. washaway

Questions 71-80 are about economic development.

71. Which of these is not an example of an informal economy?

- A. street performances
- B. flea markets
- C. corporate lawyers
- D. babysitting

72. Which of these best describes a microloan?

- A. a program to sponsor industrialization in an agrarian nation
- B. a small loan given to people in developing countries to start small businesses
- C. a measurement of an economy's growth over a specific period
- D. a tool to study poverty within a community

73. What free trade agreement enacted in 1994 involved the US, Mexico, and Canada?

- A. Association of Southeast Asian Nations
- B. Asia-Pacific Economic Cooperation
- C. Central American Free Trade Agreement
- D. North American Free Trade Agreement

74. What nation voted to leave the European Union in January 2020?

- A. Liechtenstein
- B. Turkey
- C. Norway
- D. United Kingdom

75. Shenzhen and Zhuhai are special economic zones in what nation?

- A. China
- B. Malaysia
- C. Belarus
- D. Haiti

76. Which of the following is the target of ecotourists?

- A. restaurants
- B. museums
- C. theaters
- D. natural habitats and landmarks

77. The concept of blue economy describes the sustainable use of what resource?

- A. forests
- B. oceans and lakes
- C. mountains
- D. plains

78. A situation in which a population is able to meet only its basic needs of survival is referred to as which of the following?

- A. absolute poverty
- B. aggregate demand
- C. agency costs
- D. balanced trade

79. What theory claims that Less Developed Countries can't fully develop because of their dependence on More Developed Countries?

- A. Autonomy
- B. Variable Theory
- C. Self-Sufficiency
- D. Dependency Theory

80. Which of these was not included in the UN's Millennium Development Goals created in 2015?

- A. reduce child mortality
- B. improve maternal health
- C. increase fossil fuel use
- D. ensure environmental sustainability

Questions 81 to 100 refer to Image 1 in the resource section at the end of the exam.

81. Which of these is the largest city and cultural capital of the nation marked number 15?

- A. Baku
- B. Kyiv
- C. Istanbul
- D. London

82. Which of the following does not border the nation marked number 13 on the map?

- A. Serbia
- B. Lithuania
- C. Hungary
- D. Ukraine

83. What island nation is indicated by the number 8 on the map?

- A. Cyprus
- B. Malta
- C. Majorca
- D. Crete

84. The nation marked number 11 on the map declared its independence from Serbia in what year?

- A. 1992
- B. 1998
- C. 2006
- D. 2015

85. What subsidiary of the Mediterranean Sea is indicated by the number 6?

- A. Caribbean Sea
- B. Red Sea
- C. Arabian Sea
- D. Tyrrhenian Sea

86. What nation indicated by the number 1 on the map split from Slovakia in 1993?

- A. Denmark
- B. Czechia
- C. Iceland
- D. Hungary

87. Which of these is indicated by the number 17 on the map?

- A. Georgia
- B. Turkmenistan
- C. Belarus
- D. Russia

88. Which of these serves as the capital of the nation marked number 3 on the map?

- A. Vienna
- B. Belfast
- C. Berlin
- D. Helsinki

89. Which of these is indicated by the number 12 on the map?

- A. Croatia
- B. Poland
- C. Bosnia and Herzegovina
- D. Belgium

90. Which of the following is not true of the island marked number 7 on the map?

- A. It's the largest Italian island by land area.
- B. It's the largest island in the Mediterranean Sea.
- C. It's the largest island in Europe.
- D. It houses the tallest volcano in Europe.

91. Which of these is indicated by the number 18 on the map?

- A. Kuwait
- B. Syria
- C. Bahrain
- D. Oman

92. The Ottomans ended what empire when they captured the nation marked 15 in 1453?

- A. Mongol Empire
- B. Qing Dynasty
- C. Mughal Empire
- D. Byzantine Empire

93. Over half of the population in the nation marked 10 on the map practices what religion?

- A. Islam
- B. Hinduism
- C. Buddhism
- D. Shintoism

94. Which of the following is the most populous nation on the map?

- A. Italy
- B. Portugal
- C. Moldova
- D. Slovenia

95. What papal city state is indicated by the number 5 on the map?

- A. Luxembourg
- B. San Marino
- C. Vatican City
- D. Liechtenstein

96. North Macedonia was forced to change their name after their application to the United Nations was blocked by what nation?

- A. 9
- B. 10
- C. 13
- D. 15

97. Number 16 on the map indicates what body of water?

- A. Bering Sea
- B. Caspian Sea
- C. Black Sea
- D. Erythraean Sea

98. Which of these is indicated by the number 14 on the map?

- A. Estonia
- B. Finland
- C. Germany
- D. Bulgaria

99. The nation marked 4 on the map houses the headquarters for all of the following organizations except?

- A. World Trade Organization
- B. United Nations
- C. FIFA
- D. World Health Organization

100. The nations marked 2 and 3 on the map dissolved their union after which of the following conflicts?

- A. Hundred Years War
- B. Napoleonic Wars
- C. World War I
- D. World War II

2022 IGC Battery Part 4
Resource Section

Image 1 (Questions 81-100)

