

## Geology 102: Environmental Physical Geography Final Exam



University exam rules apply Time allowed: 2 hours

## Section A (60 marks)

Please answer the questions in this section on the answer sheet provided. <u>Note</u> that two marks will be given for each correct answer and half a mark will be deducted for each incorrect answer.

- 1) If the continents were to be given in size order from the smallest to the largest, the order would be?
  - a) Australia, Antarctica, S. America, Eurasia, Africa, N. America
  - b) Australia, Antarctica, Africa, S. America, N. America, Eurasia
  - c) Australia, Antarctica, S. America, N. America, Africa, Eurasia
  - d) Antarctica, Australia, N. America, S. America, Africa, Eurasia
  - e) Antarctica, Australia, Africa, S. America, N. America, Eurasia
- 2) The large expanses of low relief ocean floor that exist beneath the deep oceans are known as?
  - a) Continental slopes
  - b) Continental shelves
  - c) Continental rises
  - d) Abyssal planes
  - e) Seamounts
- 3) There are 360 degrees in a circle. How many seconds are there?
  - a) 180.
  - b) 360.
  - c) 21600.
  - d) 1296000.
  - e) None of the above.
- 4) A Mercator projection is best described as?
  - a) A type of conic projection in which the lines of latitude are unequally spaced
  - b) A type of conic projection in which the lines of longitude are equally spaced
  - c) A type of planar projection in which the lines of latitude are equally spaced
  - d) A type of cylindrical projection in which the lines of latitude are unequally spaced
  - e) A type of equal area projection in which both the lines of latitude and longitude are unequally spaced
- 5) An alien sitting on a planet 113.52 trillion kilometres away is looking at the Earth with a powerful telescope. What Earth day does he see?
  - a) The present day
  - b) June 19<sup>th</sup> 1992
  - c) June 19<sup>th</sup> 1987
  - d) June 19<sup>th</sup> 1982
  - e) June 19<sup>th</sup> 1977

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13) What do 0°C, 32°F and 273°K have in com	imon?
a) Nothing	
b) They represent lines of latitude in differ	
c) They are temperatures (different scales)	
d) They are temperatures (different scales)	
e) They represent lapse rates in different co	ountries
14) The deflection caused by the Coriolis force	e is zero at:
a) 90° latitude	
b) 90° longitude	

- c) 0° latitude
- d) 0° longitude
- f) The deflection caused by the Coriolis force is never zero
- 15) The Subtropical High in the Northern Hemisphere is represented by?
  - a) The Bermuda and Pacific Highs
  - b) The Canadian and Siberian Highs
  - c) The Aleutian and Icelandic Highs
  - d) A and B are both correct
  - e) B and C are both correct
- 16) The dry Monsoon in India is caused by?
  - a) The ITCZ moving north in winter
  - b) The ITCZ moving south in summer
  - c) The SE Trade winds blowing across India from Africa
  - d) The NE Trade winds blowing across India from the Asian landmass
  - e) There is no such thing as a dry Monsoon
- 17) Gyres are best described as?
  - a) Rising cold water from the ocean depths
  - b) Cell like circulations of the Ocean currents
  - c) Oceanic meanders
  - d) Slow moving oceanic currents
  - e) Oceanic convection cells
- 18) High altitude wispy clouds are known as
  - a) Stratus
  - b) Cumulus
  - c) Cirrus
  - d) Nimbus
  - e) Altus
- 19) Relative humidity is measured using a:
  - a) Thermometer
  - b) Barometer
  - c) Anometer
  - d) Radiosonde
  - e) Psychrometer

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•	Section B (20 marks)
	Using fully labeled diagrams, and where possible, examples, explain what is meant by the following terms: (Remember: No diagram = No grade)
	1) A line symbol
	2) Isolines.
	3) Jet streams
	4) Classification of air masses
	5) Saaru 1
	5) Secondary pollutants

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## Section C (20 marks)

Using labelled diagrams, and where possible, examples, explain what happens next in each of the following cases. (Remember: No diagram = No grade)

