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UNIVERSITY OF GHANA

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DEPARTMENT OF TEACHER EDUCATION

SCHOOL OF EDUCATION AND LEADERSHIP

COLLEGES OF EDUCATION

END OF SEMESTER ONE EXAMINATIONS FOR LEVEL 200, 2021/2022

B.ED. PROGRAMME

COURSE CODE: TEJS 221

COURSE TITLE: BIOPHYSICAL ENVIRONMENTAL SYSTEMS

Instruction: Answer all questions in Section A and any three questions in Section B.

Time: 2 hours

SECTION A

[25 Marks, One (1) Mark for Each Question]

Answer all the questions in this section.

- 1. The average weather condition of a place studied over a long period of time usually over 35 years is referred to as
 - A. Climate
 - B. Humidity
 - C. Temperature
 - D. Weather

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2. Wha	nat is the final product of rock weathering?	
	. Deposition of rock particles	·
	Removal of weathered materials	
	. Formation of soils	
	. Transportation of mineral matter	
	nat name is given to fragments of rocks that fall from	m larger rock outcrops to the base of
	s and cliffs during exfoliation?	
	Grains	
B.	s. salt	¥
C.	2. Screes	
D.). Soil	
4. The	e process whereby certain rock minerals absorb wa	ter, expand and crumble into powdered
	is known as	•
A.	. Hydration	
B.	3. Hydrolysis	
C.	C. Oxidation	
D.	D. Solution	e e jes
5. The	e reason for keeping thermometer inside a Stevenson	on's screen is to prevent
A.	a. birds from making their nests in the screen of the	thermometer
B.	3. direct sunshine from affecting readings on the the	ermometer
C.	2. lighting from damaging the inner and outer part	ofc the thermometer
D.	o. thieves from damaging and stealing the thermom	eter
	e wrinkling or bending of the earth's crust which o	ccurs along lines of weakness is known
as	a. Denudation	
	B. Faulting	
C.	2. Folding	
D.). Weathering	
7. All	the following are examples of extrusive volcanic	feature EXCEPT
A.	Caldera Lake	
B.	. Dyke	

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C. Lava plateau
D. Geyser
8. The shaking and vibration of the Earth's crust due to the movement of the Earth's plates is
referred to as
A. Earthquake
B. Faulting
C. Folding
D. Volcanicity
9. The process of weathering where a rock losses oxygen element to disintegrate is termed
as
A. acidic reaction
B. ionization
C. oxidation
D. reduction
10. The, refers to the totality of plant and animal life on earth.
A. Atmosphere
B. Biosphere
C. Hydrosphere
D. Stratosphere
11. The erupted magma on the surface of the earth is known as
A. Cone
B. Lava
C. Molten Magma
D. Plummerm
12. The general term for all processes that cause the wearing away of the earth's surface by moving
water, ice, wind and waves is known as
A. Denudation
B. Erosion
C. Mas Wasting
D. Weathering Page 3 of 7

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13. Which of th	e following is NOT a type of physical process of weathering?
A. Exfoliat	ion
B. Granula	r Disintegration
C. Reduction	on
D. Unloadi	ng
14. The	consist of all water bodies including the ocean or saline waters and freshwate
	rivers, lakes and streams.
A. Biosphe	
B. Hydrosp	phere
C. Mesosph	here
D. Thermos	sphere
15. A line of we	akness in the bedrock along which there has been some displacement of rock strata
relative to one a	nother is termed as
A. Break	
B. Crack	
C. Fault	
D. Fracture	
16. Gravity is co	onstantly trying to pull rock and debris down the slope of a mountain. At the same
time, the resisti	ve forces of the mountain, including the cohesive strength and internal friction
between the ma	terials, referred to as the mountain's, constantly pulls back
against gravity.	
A. Energy	
B. Residual	
C. Shear Str	•
D. Tensiona	
17. The continu	ous movement of water between hydrosphere, atmosphere, and lithosphere in a
	termed as
A. Atmosph	
B. Biosperio C. Hydrolog	
D. Litospher	rical Cycle

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	A 400 - 10 500	
		correct arrangement of the layers of the earth's crust
from th	e surface to the interior?	
A.	Sial, sima, mantle, core	
В.	Mantle, sial, sima, core	
C.	Core, mantle, crust, atmosphere	
D.	Sima, mantle, sial, core.	
19. Th	e trees have thick bark, long tap roo	ots, small leathery leaves with many shrubs and bushes
in area	s with poor soils. The vegetation ty	pe being described is
A.	Equatorial	
B.	Coniferous	
C.	Mediterranean	
D.	Temperate grassland.	
20. W	hich of the following conditions wil	
i.	Continental winds	iii. Atmospheric instability
ii.	Maritime winds	iv. Cold ocean currents
A.	i and ii only	
В.	i and iv only	P1
C.	ii and iii only	يت سيت د د د د د د د د د د د د د د د د د د د
D.		the restable weethered?
		horizons is the parent rock partially weathered?
	. The A horizon	
	. The B horizon	
	. The C horizon	
	. The D horizon	and on
	oppen's climatic classification is ba	sed oil
	. Temperature and precipitation	
В	. Temperature and pressure	

C. Precipitation and vegetationD. Temperature and vegetation.

23. Dark clouds extending to heights of about 15,000 metres which bring a lot of rain to tropical
lands are known as
A. Cirrocumulus
B. Cirrus
C. Cumulonimbus
D Cumulus

- $24. \ \mbox{In}$ which zone of the atmosphere is the ozone layer found ?
 - A. Troposphere

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- B. Mesosphere
- C. Stratosphere
- D. Thermosphere
- 24. Carbon dioxide gives rise to the greenhouse effect because it
 - A. Traps the heat that the earth's surface radiates
 - B. Absorbs water vapour from the atmosphere
 - C. Prevents ultraviolet rays from reaching the earth's surface
 - D. Increases the rate of evaporation from the earth's surface.

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SECTION B

[75 Marks. Each Question is twenty-five (25) Marks]

Answer any three questions in this section.

- 1. a. Distinguish between intrusive and extrusive volcanic rocks.
- {4mks}
- b. With the aid of a diagram, explain the characteristics and mode of the composite volcano {21mks}
- 2. Discuss the tropical rainforest vegetation under the following:
 - a. Location

{1mks}

b. Two climatic factors affecting its distribution.

{4mks}

c. Four vegetation characteristics

{8mks}

d. Four economic importance.

{12mks}

- 3. a. What is denudation?
 - b. Describe three (3) processes of physical weathering.
 - c. Comment on the importance of weathering to man.
- 4. a. What is soil catena?
 - b. With the aid of a diagram describe the soil profile showing the major horizons.
 - c. State two (2) factors that affect soil formation.
- 5. Write short notes on the processes that produce the following landforms and support your answers with illustrations.
 - a. Faulting
 - b. Folding
 - c. Volcanicity
 - d. Mass wasting