WORLD SOIL DAY CELEBRATIONS

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7. QUIZ CONTEST ON SOIL SCIENCE

A Quiz contest was conducted as part of the **WORLD SOIL DAY CELEBRATIONS** held in Department of Geography & Geoinformatics, Bangalore University, Bengaluru, India. About 120 students at graduate and post graduate level participated in the quiz programme. The questions were designed to test the general knowledge on soil, and the role of soil in overall development of a region. The list of questions are as under.

1. Pick up the clay soil group which does not swell when wet from the following:

	 Vermiculite group Kaolinite group Mite group Montrorillonite group. 			
 In a liquid limit test, the moisture content at 10 blows was 70% and that at 100 blows was 20%. The liquid limit of the soil, is 				
	 65% 35% 50% None of these. 			
3. The water content of soil is defined as the ratio of				
	 Weight of water to weight of solids of given mass of soil. Volume of water to volume of given soil Volume of water to volume of voids in soil Weight of water to weight of air in voids 			
4. The internal molecular attraction of a soil, the cohesion				
	 Is more in well compacted clays Decreases as the moisture content increases Depends upon the external applied load. 			

4. Increases as the moisture content decreases
5. Which one of the following statements is true ?
 Clays are more porous than sands All Pressure of organic matter in a soil decreases the bearing capacity of the soil Aluminous cement is used for foundations in soils with chemical deposits
6. Accurate determination of water content, is made by
 Calcium carbide method Alcohol method oven-drying method. Sand bath method
7. O Minimum size of the particles of silt soil, is
1. 0 1 mm 2. 0.002 mm 3. 0.06 mm. 4. 0.04 mm
8. The ratio of the volume of voids to the volume of soil solids in a given soil mass, is known
 Water content. Void ratio Porosity Specific gravity
9. The liquid limit and plastic limit exist in
 gravel soils clay soils. sandy soils silty soils
10. What is aa soil horizon?

a) A factor influencing how soil is formed
b) A layer of soil
c) An organism found within the soil
o) A technique used to map soils
11. Which three layers form the soil profile?
a) Air. water and soil
b) Minerals, organic matter and living organisms
C) Clay, silt and sand
igodot d) The topsoil, subsoil and parent material
12. How does a 'sandy' soil feel like to touch?
a) Sticky
b) Gritty
C) Smooth
d) none of these
13. Why is organic matter (humus) an important part of soil?
a) It helps to improve water infiltration
b) It can break down organic pollutants
c) It converts nitrogen in the air into nitrates used by plants
igcirc d) It is rich in nutrients, which is important for fertility
14. Which of the following is NOT a common reason why soil maps are used?
igodot a) To determine the land drainage capabilities of an area
igodot b) To determine the suitability of soils for particular crops
igcirc c) To identify soils and their properties
igcirc d) To record how soils are used by people
15. Approximately how many micro-organisms can be found in a teaspoonful of soil?
a) 4 billion
b) 50 million

C) 500,000
O d) 1000
16. Which of the following creatures will you NOT find in the soil?
a) Earthworm
© b) Springtail
c) Mite
O d) Lemur
17. Which of the following is NOT a threat commonly faced by soils?
a) Soil erosion
O b) Percolation
C) Deforestation
O d) Climate change
18. What is soil erosion?
igcirc a) It is the process by which soil is formed
 b) A harmful process that involves the removal and transport of soil by wind and water
c) A natural method of filtering harmful pollutants
O d) A process often referred to as the 'greenhouse' effect
19. What effect can soil have on health if eaten or inhaled?
a) Nothing - it is perfectly safe
b) It can be good for your health
c) It can have serious health implications such as cancer
20. Which of the following pH values represents a neutral condition?
A. 5.0
B. 1.0
C. 6.0
D. 10
21. Most (usually 80% or more) of soil potassium and calcium can be found in the form of

	uctural components of minerals hangeable ions
	anic compounds
• D. Diss	solved substances
22. Physical wea	athering
	de to the formation of alov mineral particles
	ds to the formation of clay mineral particles reases the surface area of soil minerals
_	eases the surface area of son fillierals eases essential plant nutrients
	he result of water mixing with the carbon dioxide respired by plants and
	organisms
merod	organisms
23. What soil is	course and drains quickly?
A. San	d d
B. Clay	y
• C. Frui	
• D. Loa	m
o A. San	
o B. Clay	
o C. Igne	
o D. Hur	mus
25. Loam is use	d to help grow
o A. Anima	uls
B. Kids	
	and Vegetables
D. Toys	
,	
26. Where is sil	t usually found?
-5. WHEEE 13 311	Casadiy . Saria.
o A. Near f	arms
D. Manua	body of water
o B. Near a	ck
B. Near aC. In a ro	
	es
o C. In a ro	es

	A. Top SoilB. OceansC. Houses
	o D. Rocks
28.	What soil is made of broken down pieces of dead plants and animals?
	○ A. Clay
	∘ B. Minerals
	o C. Sand
	o D. Humus
20	Milest and the condition and a continue 2
29.	What soil can be used to make pottery?
	 A. Potting Soil
	o B. Rocks
	o C. Sand
	o D. Clay
30.	Deccan plateau in India contains
	o Black soil
	o red Soil
	o Brown Soil

Three winners were selected based on the performance and it was noticed that the average score was ranging from 60 percent to 85 percent. The quiz programme was actively participated by the students and led to a good level of awareness creation.

A photograph of the Quiz Contest on Soil Science is given below.

None of these

