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(16)

JUNE '17

2017						
JUNE	M	T	W	T	F	S
				1	2	3
				4	5	6
	7	8	9	10	11	12
	13	14	15	16	17	18
	19	20	21	22	23	24
	25	26	27	28	29	30

THURSDAY

DAY 152-213 Wk 22

01

B.A. Part - I

Paper - I

Date - 29/06/20

Physical Geography

Karst Topography (Unit - III)

* Erosional Landforms (continue)

9.7 Caves or Caverns :-

→ W. M. Davis contradicted the corrosion theory in 1930 and postulated his two-cycle theory for the development of limestone caverns. According to him caves are formed by phreatic water i.e. water under hydrostatic pressure below water table.

→ In the first cycle or stage caves are formed due to solution of limestones in the phreatic zone below water table. In the second cycle or stage the area is uplifted and thus the cave comes under vadose zone because of lowering of water table and the cavern becomes dry resulting into the formation of depositional landforms (speleothems).

→ According to A. C. Swinnerton 'Water table theory'

The greatest mistake you can make in life is to be continually fearing you will make one.

- Elbert Hubbard

'17 JUNE

02

FRIDAY

Wk 22 DAY 153-212

JUNE

Wk	M	T	W	T	F	S	S
22				1	2	3	4
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states that caves are not formed by phreatic water under hydrostatic pressure but they are formed by lateral flow of water in the vadose zone or by freely moving water at the level of water table.

→ According to the 'Invasion theory' of C.A. Malott states that most of the present caverns and galleries in limestone regions have been formed by the subterranean streams.

→ According to Malott surface streams disappear at sink holes and take underground courses where they dissolve and abrade limestones to form their passages. These passages are gradually enlarged due to corrosion and abrasion of limestones and thus caverns and galleries are formed.

107 Ponores : →

Ponores are the vertical pipe-like channels or passages that connect the caves and the swallow holes.

No one ever excused his way to success.

- Dave Del Dotto

A - Probable sequence of cave passages (18.)
 B - Dissolution of limestones and formation of Guptadalen cave (Biker)

JUNE '17

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30	24	25	26	27	28	29	30

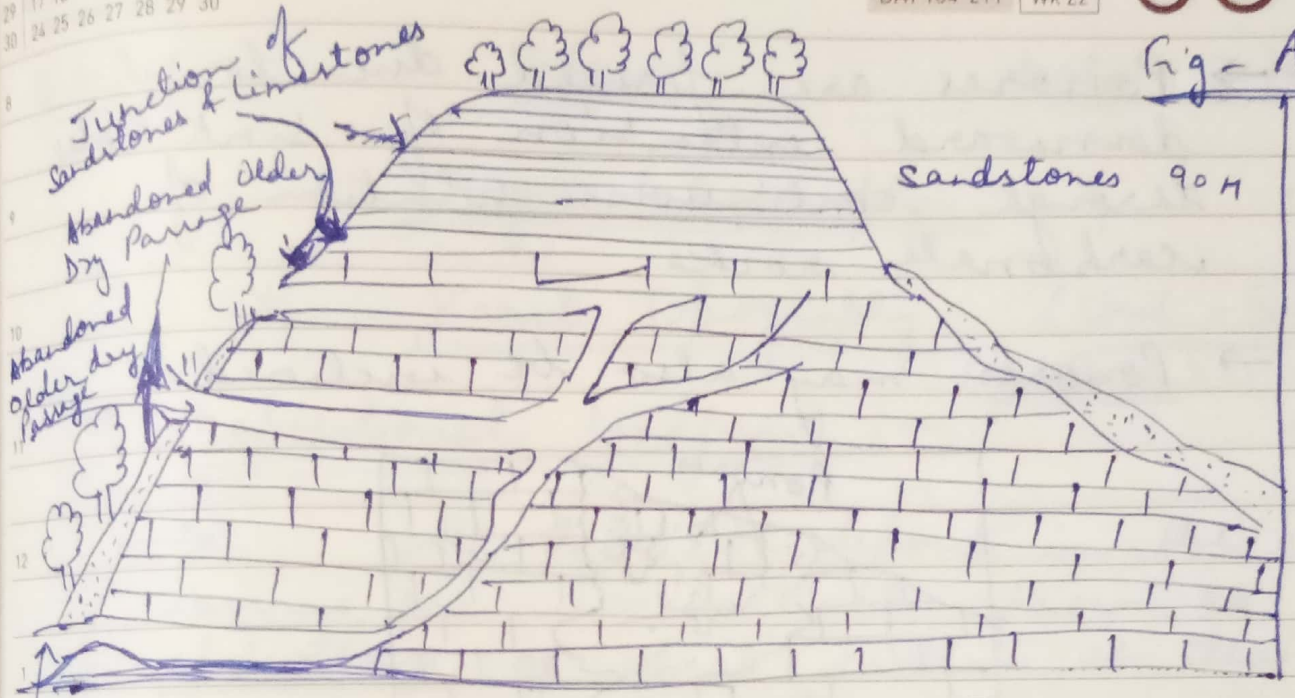
Gupteswar Hill

SATURDAY

DAY 154-211 Wk 22

03

Fig - A



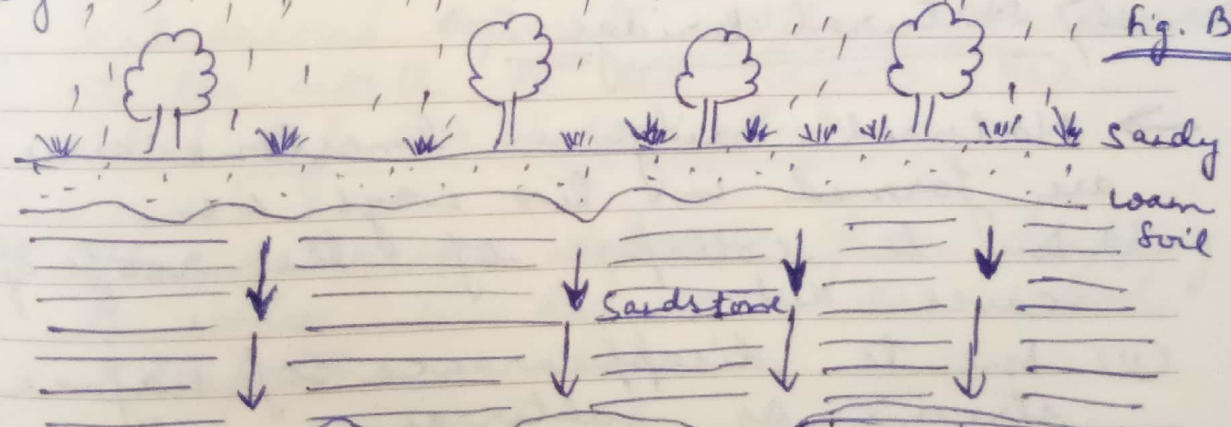
limestones

cloud

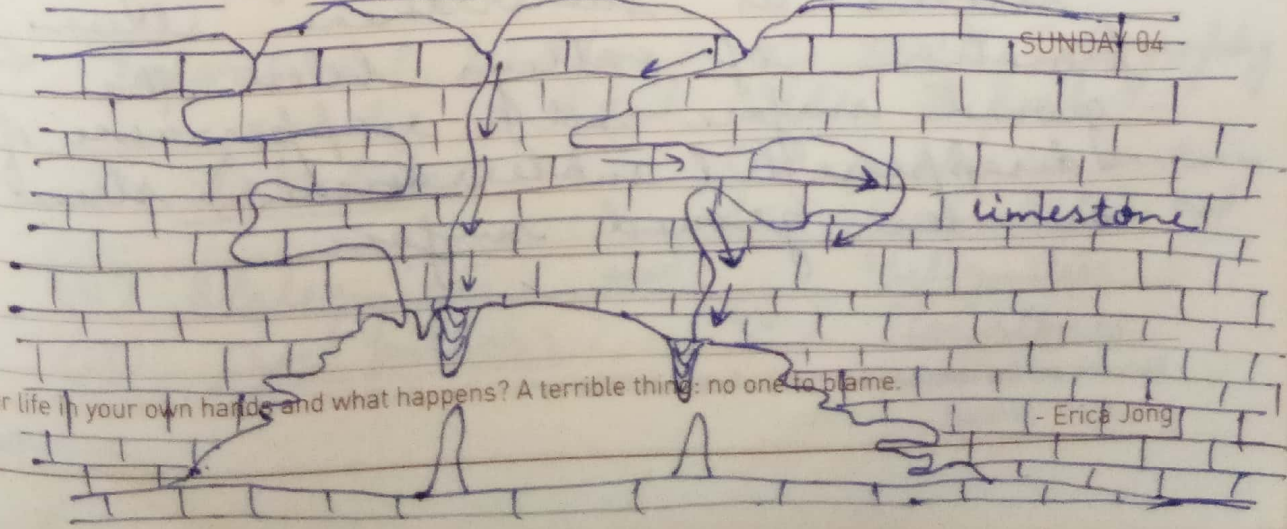
Present passage

Rain

Fig. B



SUNDAY 04



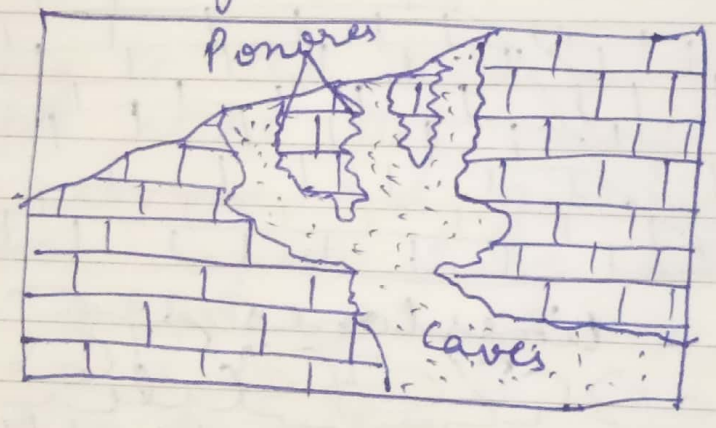
Take your life in your own hands and what happens? A terrible thing: no one to blame.

- Erica Jong

Wk	M	T	W	T	F	S
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23	5	6	7	8	9	10
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→ Ponorres are formed due to downward extension of sink holes through continuous solution of carbonate rocks.

→ Ponorres may also be inclined.



11.7 Natural Bridge : →

→ Natural Bridge in limestone areas are formed in two ways i.e.

(i) due to collapse of the roofs of caves and

(ii) due to disappearance of surface streams as subterranean streams, formation of valleys below the ground surface and reappearance of disappeared (subterranean) stream on the ground surface.

Excuses are the nails used to build a house of failure.