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Question Paper Code: 21040

B.E./B.Tech. DEGREE EXAMINATION, NOVEMBER/DECEMBER 2015.

Third Semester

Civil Engineering

AG 2211/AG 33/CE 1201/10111 CE 303/080100009 - APPLIED GEOLOGY

(Common to Geoinformatics Engineering)

(Regulations 2008/2010)

Time: Three hours

Maximum: 100 marks

Answer ALL questions.

PART A - (10 × 2 = 20 marks)

- Write the types of waves and currents.
- 2. What are the methods of wind erosion?
- List the properties of mica.
- Distinguish between Augite and Hornblende.
- 5. What is meant by slaty cleavage?
- Mention the composition, properties and uses of Dolerite.
- 7. What is anticlinal fold?
- Name the device used to measure dip and strike.
- 9. What is the effect of joints in rocks where a tunnel is to be constructed?
- List some methods to prevent coastal erosion.

PART B - $(5 \times 16 = 80 \text{ marks})$

11. (a) Write an essay on the geological work of river.

Or

(b) Describe the geology of groundwater and its importance in civil engineering.

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	82		72	
	,	9 85 23 10 2• 22		38
	(b)	Explain in detail, the Conditions of a major	civil engineering proje	ct site.
		20 50	Or	sing in studying geological
15.	(a)	What are the geologic of dams? Explain each		for design and construction nms.
	(b)	Explain the seismic re to bed rock.	fraction survey for the	determination of the depth
			Or for the	determination of the depth
14.	(a)	Describe with a neat of note on civil engineering		ssifications of faults. Add a
01	(b)			nd properties of Igneous,
1			Or sharecters a	nd properties of Igneous,
		(iii) Sandstone	(iv) Gneiss.	
13.	(a)	rocks (i) Schist	(ii) Marble	9
	(-)	Describe the petrologic	al and engineering p	roperties of the following
		(iii) Hornblende		1.32
		(ii) Garnet		$(4\times 4=16)$
	(b)	(i) Quartz		
		Write the Physical proper	ties of following miner	als:
2. (a)			th suitable examples. (16)
		· ind nro	perties of minerals wi	CII Out