Total No. of Questions : 8]

PA-1183

SEAT No. :

[Total No. of Pages : 2

[5925]-205

S.E. (Civil Engineering) ENGINEERING GEOLOGY

(2019 Pattern) (Semester-III) (207009)

[Max. Marks : 70

[5]

[6]

[5]

[6]

Instructions to the candidates:

Time : 2¹/₂ Hours]

- 1) All questions are compulsory.
- 2) Figures to the right indicate full marks.
- 3) Neat diagrams muist be drawn wherever necessary.

Q1) a) Describe various types of unconformities with near sketches. [6]

- b) Explain sill and Dyke as igneous intrusions.
- c) Write short notes on:
 - 3) Symmetrical and asymmetrical folds
 - ii) Strike and dip of rocks.

Q2) a) Explain various parts Fold and any three types of fold with neat sketches.[6]

OR

- b) Write short note on plate tectonic.
- c) Describe the classification of fault and their engineering significance.[6]

Q3) a) What is the effects of faulting and their significance in civil engineering [6]

- b) Describe the application of remote sensing in civil engg.
- c) Describe photo interpretation elements of aerial photographs. [6]

Q4) a) Explain in detail the importance of preliminary geological exploration in civil engineering projects. [6]

OR

- b) Write an applications of GIS in civil engg. [6]
- c) Explain any three methods of subsurface investigation. [6]
- Q5) a) Discuss in detail preliminary geological investigations of tunneling. [6]
 - b) What are the geological requirement for the foundation of dam? [6]
 - c) Discuss the feasibility of dam site, with dipping and horizontal strata.[6]

OR

P.T.O.

Q6) a)	A site is proposed for excavation of tunnel is A-B and M-N, which passing through axis and limb region of fold respectively. Justify suitability of tunnel is such conditions.	
b)	Explain with appropriate example the feasibility of dam alignment w	hich
	is crossing DYKE.	[6]
c)	Write a note on the dam located on folded geological structure.	[6]
Q7) a)	Describe different types of seismic waves in detail.	[6]
b)	What is landslides? What are the causes of it?	[5]
c)	Define Aquifers. Explain in short the types of aquifers.	[6]
	OR BO	
Q8) a)	Write a note on building stones.	[6]
b)	What are the causes of an earthquakes.	[5]
c)	Explain the Geological conditions favorable for natural springs and arte	
	wells.	[6]
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