

Total number of printed pages-4

53 (CE 305) ENGL

2019

ENGINEERING GEOLOGY

Paper : CE 305

Full Marks : 100

Time : Three hours

The figures in the margin indicate full marks for the questions.

Answer Question No. 1 and any four from the rest.

1. Differentiate between : 10×2=20
- (a) Acidic and Basic rocks
 - (b) Phacolith and Laccolith
 - (c) Dynamic and Thermodynamic metamorphism
 - (d) Foliated and Non-foliated rocks

Contd.

- (e) Disintegration and Decomposition of rocks 3
- (f) Deflation and Abrasion
- (g) Conchoidal and Hackly 4
- (h) Adamantine and Vitreous
- (i) Streak and Cleavage 4
- (j) Argillaceous and Rudaceous. 4
2. (a) What do you understand by the term texture of a rock? Discuss the various types of textures of sedimentary rocks. 2+8=10
- (b) How concordant bodies and discordant bodies are formed? 5
- (c) Enlist the properties of Quartz. 5
3. (a) Describe the various terms used for the identification of a mineral structure. 6
- (b) Define falls, flows and creep. 3
- (c) Discuss the various natural and man-made factors causing landslide. 11

4. (a) Define hydrology in terms of geology. 3
- (b) Describe the yielding capacity of igneous and metamorphic rocks. 4
- (c) What is Elastic-rebound theory? 4
- (d) Explain the various parts of a fold with the help of a suitable diagram. 9
5. (a) Discuss the geological work done by running water. 10
- (b) What do you understand by structural features of a rock? Discuss the various structural features of a dam site. 3+7=10
6. (a) What are folds and faults? How do they originate? 4+4=8
- (b) Discuss the various types of faults. 10
- (c) How metamorphism process takes place in rocks? 2
7. Write short notes on: 10×2=20
- (a) Mineralogy
- (b) Economic Geology

(c) Building stone

(d) Dip

(e) Strike

(f) Epicentre

(g) Focus

(h) Footwall

(i) Hade

(j) Throw.