

EG: Sem-III - Civil
(old)

11/06/15

(OLD COURSE)

Q.P. Code : 4524

(3 Hours)

[Total Marks : 100

NB:

- 1) Question No. 1 is compulsory.
- 2) Out of remaining questions, attempt any 4 (four) questions.
- 3) In all, four questions to be attempted.
- 4) All questions carry equal marks.
- 5) Answer to each new question to be started on a fresh page.
- 6) Figures in brackets on the right hand side indicate full marks.
- 7) Assume Suitable data if necessary

1.	Answer any five from the following:	20
a.	What do you mean by the terms "streak" and "fracture" of a mineral?	5
b.	Describe the shelled structure of the Earth with a diagram.	5
c.	What do you mean by porphyritic texture?	5
d.	How are seif dunes formed?	5
e.	What is the ground water table? Differentiate between confined and unconfined aquifers.	5
f.	Diagrammatically describe three different types of faults.	5
g.	Draw a diagram to show the various forces acting on a gravity dam	5
2.		20
a.	Describe a few branches of geology that are useful in civil engineering.	10
b.	What are dunes? In your opinion, what kind of building material would be available from dunes?	5
c.	Draw a typical aquiclude and label the different parts.	5
3.		20
a.	Differentiate between recumbent and isoclinal folds.	5
b.	Explain how the elements of hydrology can be useful in civil engineering.	10
c.	Describe the corrie lake.	5
4.		20
a.	Describe the pyroxene group of minerals.	10
b.	Write a note on the origin and occurrence of petroleum deposits.	10
5.		20
a.	Describe directive textures of igneous rocks.	10
b.	Differentiate between grain size and grain shape in sedimentary rocks.	5
c.	What are the different types of metamorphism?	5

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6.	Write short notes on any five.	20
a.	Feldspar Minerals	4
b.	Barchans	4
c.	Seismic method of exploration	4
d.	Cone of Depression	4
e.	Geological structures that affect tunnel construction	4
f.	Disconformity	4
g.	Shale and slate	4
7. a	Give an account of landslides and prevention of the same.	10
b.	How can you ensure effective dam construction with respect to geological structures?	10