

V T U – QUESTION PAPERS**UNIT – 1**

1. Discuss the importance of Geology in the field of civil engineering.
(June-2012)(Dec-2013)
- 2 Describe the internal structure and composition of the earth.
(Dec-2013) (July-2014)
- 3) Discus the following physical properties of minerals. 1)Cleavage 2)Fracture 3)Luster 4)Hardness.
(Jan-2013)
- 5) Write the chemical composition and uses of any two of the following minerals. GYPSUM, BAUXITE, OPAL, HEMAITE.(Dec-12) (July-2014)
- 6) Write the following physical properties of any two of the following Mineral. CALCITE, GALENA, ORTHOCALSE, BARITE.
(Jan-2013)
- 7) Write the physical properties, Chemical composition of and uses of any three of the following.
1)Quartz 2)Calcite3)Gypsum4)Magnetite5)Orthoclase (June-2012)
- 8) Define Minerals. (July 2014)

UNIT – 2

- 1) What are Igneous Rocks, Describe the mode of occurrence of Igneous rocks.
(July 2013)
- 2) Define Metamorphism. Describe the kinds of Metamorphism. (Jan-2013)
- 3) Write the classification of igneous rocks based on the occurrence with rock example. (June-12) (Jan-2013)
- 4) Write the classification of Sedimentary rocks based on the sediments size with rock example. (Jan-2013)
- 5) What are igneous rocks? Describe the mode of occurrence of Igneous rocks. (June-2012)
- 6) Write the properties and uses of any two of the following
a)Granite b) Basalt c)Sand Stone d)Marble (Jan-2013) (July-2014)
- 7) With neat sketch explain briefly different forms if igneous bodies (Dec-2013)
- 8) Explain the structures present in sedimentary rocks with neat sketches (Dec- 2013) (July-2014)
- 9) Write the characters of good building stones (Dec- 2013)
- 10) Define Rock with example. (July-2014)

UNIT – 3

- 1) Define Soil. Describe the types of soil. **(June- 2012) (Dec- 2013)**
- 2) Write a brief account of geological work of running water and its engineering importance. **(Jan-2012) (Dec- 2013) (Jan-2013)**
- 3) What are OX-bow lakes? How are they formed? **(Dec- 2011)**
- 4) What is soil and soil profile? Describe the methods of soil conservation. **(Jan-2013) (Dec- 2013) (July2014)**
- 5) What is wind deflation? Write a note on importance of wind to civil engineering. **(Dec- 2011)**
- 6) What is mechanical weathering? Write a note on mechanical weathering by thermal effect. **(Jan-2013) (Dec- 2013)**
- 7) Write brief note on Epigene and Hypogene geological agents **(Jan-2013)**

UNIT – 4

- 1) What is Earthquake? Discuss the causes of Earthquake resistance structures **(Dec- 2013) (July2014)**
- 2) What are Earthquake? How they are caused? Discuss in detail precautionary measures followed in the design of seismic tolerant structures. **(Dec-2012)**
- 3) Causes and effects of earthquake. **(Jan-2013) (July2014)**
- 4) Write a note on causes of landslide **(Jan-2013) (Dec- 2013) (July-2014)**
- 5) What is Tsunami? Add a brief note on it. **(Jan-2013) (Dec- 2013)**

PART - B**UNIT – 5**

- 1) What are folds? How are they caused? Describe recumbent and plunging folds. **(Jan-2013)**
- 2) Distinguish between joints and faults in rocks. Explain Horst and Graben. **(Jan-2013)**

- 3) Comment on tunneling through folded strata. (Jan-2013)
- 4) What are folds? How are they caused? Describe the various types of folds noticed on rocks. (Dec – 2013)
- 5) What is Fault? How do you identify the faults in field and add a note on its engineering importance. (Dec- 2013)
- 6) Add a note on Angular Unconformity. (Jan-2013) (Dec- 2013)
- 7) What are joints? Write its importance in civil engineering field. (Jan-2013)

- 8) Explain the following: a) Unconformity (Jan-2013)
b) Dip and Strike
c) Normal and Reverse fault
d) Drag fold (May/June 2012)
- 9) Explain the any two types of the following with a neat sketch
a) Dip and Strike b) Parts of Folds c) Mural Joints (July-2014)

UNIT – 6

- 1) Give a brief account of geological considerations to be considered in selecting site for the construction of a dam and reservoir. (Dec- 2013)(July-2014)
- 2) Write a brief note on preventive measures of silting of the reservoirs. (Dec- 2012)
- 3) What are joints? Write its importance in civil engineering field. (Jan-2013) (Dec-12)
- 4) What are Dams and Reservoirs? Discuss the different types of dams giving geological reasons. (Jun- 2012)
- 5) Add a note on foundation on upstream dipping beds. (Dec- 2012)
- 6) What are Tunnels? Enumerate the steps to be considered for tunneling through folded and faulted beds. (July-2014)

UNIT – 7

- 1) Explain water bearing properties of Rock. (June-12)

- 2) What is an aquifer? Describe the types of aquifers.
(Jan-2013)
- 3) Describe how ground water is prospected by electrical resistivity method.
(Jan-2013) (Dec- 2013) (July-2014)
- 4) Write brief note on Hydrological cycle. **(Jan-2013) (July-2014)**
- 5) Describe the methods adopted for artificial recharge of groundwater.
(Jan-2013) (Dec- 2013)

UNIT – 8

- 1) What is remote sensing? Write its application in civil engineering.
(Jan-2013) (Dec- 2013) (July-2014)
- 2) Application of Global positioning system (GPS).
(Jan-2013) (Dec-2012)
- 3) Application of GIS and GPS in civil engineering.
(Jan-2013)
- 4) Write a note on impact of mining on Environment
(Jan-2013) (Dec- 2013) (July-2014)
