03.6.14

Civil /III / CBSGS/ Engg. Geology

QP Code : NP-18705

(3 Hours) [Total Marks : 80

N.B.

1. Question No. **1** is **compulsory**
2. Attempt any **three** questions out of remaining **five** questions.
3. Draw neat **labeled diagrams** wherever necessary.
4. All the parts of a question should be **grouped together**.
5. Figures to the **right** indicate marks

1. Attempt all the below given , write down first YES or NO and describe shortly   20

    i.   The centre of the Earth is called Mantle which is in frozen state

    ii.   Engineering Geology is for mainly Civil Engineers

    iii.   Wind modification over rock structure always very slow

    iv.   River activity ends with Ocean as Tsunami

    v.   Regolith comes in Weathering

    vi.   Denudation is an activity over hard and soft rocks

    vii.   Hanging Valleys are being created by Civil engineers for their projects

    viii.   'Dip' amount is the major factor for down fall movement

    ix.   'Gouge' indicate a perfect fold movement

    x.   Central and fissure eruption are happening only lava pressure

2. (i) Write 10 relevant informations how Civil engineers are benefitted by Geology   20
(ii) Give an Essay about Geological Work of Natural Agencies of both River and Glacier

3. Draw and describe the below given:-   20
(i)   Mesa and Butte
(ii)   Strike and Dip
(iii)   V' valley and U' valley
(iv)   Mesa and Butte
(v)   Fracture and Cleavage

4. Draw and Describe the importance in according to the name:-   20
(i)   Down falling movement

[TURN OVER

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(ii)   Floating mineral

(iii)   Over turned fold

(iv)   Equally distanced /arranged electrodes

(v)   Vesicular Basalt

5.   Explain the below given in detail along with detailed drawings from Ground Water-   20

(i)   Artesian Well

(ii)   Hydrological Cycle

(iii)   fault works as spring

(iv)   Recharging well

(v)   Zones of Ground Water

6.   (i) Principles of Stratigraphy   5

(ii) Importance of Deccan Traps by 10 point   5

(iii) Describe (in table) any four Deccan Traps rocks of their appearance   10

strength, the creation by nature and its civil engg. importance

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