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SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR  
(AUTONOMOUS)

B.Tech II Year II Semester Supplementary Examinations July-2022

ENGINEERING GEOLOGY

(Civil Engineering)

Time: 3 hours

Max. Marks: 60

**PART-A**

(Answer all the Questions 5 x 2 = 10 Marks)

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|---|---|---|----|----|
| 1 | a | Explain the importance of geology in civil engineering. | L2 | 2M |
|   | b | Describe the cleavage of minerals.                      | L1 | 2M |
|   | c | Differentiate dykes & sills.                            | L2 | 2M |
|   | d | Write a note on springs.                                | L1 | 2M |
|   | e | What are the different types of tunnels?                | L2 | 2M |

**PART-B**

(Answer all Five Units 5 x 10 = 50 Marks)

**UNIT-I**

- |   |  |    |     |
|---|--|----|-----|
| 2 | How do civil engineers determine the extent of weathering patterns in major civil engineering constructions? | L2 | 10M |
|---|--|----|-----|

OR

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|---|---|----|-----|
| 3 | How is Geology related to Engineering? Discuss the scope of application of geological knowledge in the planning work. | L2 | 10M |
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**UNIT-II**

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|---|---|----|-----|
| 4 | Explain the important physical properties of minerals that are commonly studied for their identification. | L2 | 10M |
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OR

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|---|--|----|-----|
| 5 | What is a mineral? Describe in detail the physical properties of minerals. Add note on the feldspar group of minerals. | L2 | 10M |
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**UNIT-III**

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|---|--|----|-----|
| 6 | Define the term "rock" Describe the classification of rocks & their characteristics. | L1 | 10M |
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OR

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|---|--|----|-----|
| 7 | Explain the classification of sedimentary rocks giving suitable example. | L2 | 10M |
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**UNIT-IV**

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| 8 | Classify and describe the different types of faults? Give the various minor structures found In the fault Zones? Discuss the effects of faulting on various engineering projects. | L2 | 10M |
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OR

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|---|--|----|-----|
| 9 | What is an Unconformity? Describe different types of unconformities. Add a note on the Importance of unconformity. | L2 | 10M |
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**UNIT-V**

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|----|--|----|-----|
| 10 | What are dams and reservoirs? Explain the purpose of construction of major dams and reservoirs in India. | L2 | 10M |
|----|--|----|-----|

OR

- |    |  |    |     |
|----|--|----|-----|
| 11 | Explain the geological factors influencing water tightness and life of reservoirs. | L2 | 10M |
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