VALLIAMMAI ENGINEERING COLLEGE

SRM Nagar, Kattankulathur – 603 203.



DEPARTMENT OFCIVIL ENGINEERING <u>OUESTION BANK</u>

SUBJECT : CE 8392 –ENGINEERING GEOLOGY SEM / YEAR: III/II

UNIT I - PHYSICAL GEOLOGY

Geology in civil engineering – branches of geology – structure of earth and its composition – weathering of rocks – scale of weathering – soils - landforms and processes associated with river, wind, groundwater and sea – relevance to civil engineering. Plate tectonics – Earth quakes – Seismic zones in India.

| | PART A | | | | |
|------|---|-------------|---------------|--|--|
| Q.No | Questions | BT Level | Competence | | |
| 1. | Define the term soil pedogenesis. | BT-1 | Remembering | | |
| 2. | Describe briefly the layers of interior of earth. | BT-2 | Understanding | | |
| 3. | State weathering. | BT-1 | Remembering | | |
| 4. | What is meant by seismic zone and mention the zones? | BT-1 | Remembering | | |
| 5. | Explain in short the erosional landforms associated with ground water flow and depletion. | BT-2 | Understanding | | |
| 6. | Explain in detail about chemical weathering. | BT-2 | Understanding | | |
| 7. | Describe spheroidal weathering. | BT-2 | Understanding | | |
| 8. | Write about mohorovicic and Guttenburg discontinuity. | BT-3 | Applying | | |
| 9. | Explain about plate tectonics and name a few secondary tectonic plates. | BT-5 | Evaluating | | |
| 10. | Write short note on exfoliation and exudation. | BT-3 | Applying | | |
| 11. | Differentiate between water table and perched water table. | BT-4 | Analyzing | | |
| 12. | Explain aquifer and mention its types. | BT-5 | Evaluating | | |
| 13. | Mention the characteristics of levees and floodplains. | BT-3 | Applying | | |
| 14. | Differentiate aquifer and aquiclude. | BT-4 | Analyzing | | |
| 15. | Write about Mercalli scale. | BT-6 | Creating | | |
| 16. | Elaborate the interior structure of the earth. | BT-6 | Creating | | |
| 17. | Write about confined aquifer and unconfined aquifer. | BT-1 | Remembering | | |
| 18. | List the depositional landforms created by a river. | BT-4 | Analyzing | | |
| 19. | What is meant by continental drift? | BT-1 | Remembering | | |
| 20. | Tell about base level of erosion. | BT-1 | Remembering | | |
| 21. | Define the term Denudation. | BT-1 | Remembering | | |
| 22. | What is mean by Pedestal Rocks and how it is formed? | BT-3 | Applying | | |
| 23. | In what circumstances the coral reefs are formed and which geological process associated with this formation? | BT-6 | Creating | | |
| 24. | Describe about seismic waves and its types? | BT-2 | Understanding | | |
| 25. | Draw the Barchans and give detail about it? | BT-4 | Analyzing | | |

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| | PART B | | | |
|-----|---|------|---------------|--|
| 1. | Write in detail about the structure of the earth and its composition with a neat diagram. | BT-6 | Creating | |
| 2. | Give an account on mode of occurrence and prospecting of ground water. | BT-1 | Remembering | |
| 3. | Mention the concept of plate tectonics and describe how earthquakes occur. Add a note on the distribution of earthquake in the world and in India. | BT-3 | Applying | |
| 4. | Explain in detail about weathering of rocks add a note on the effect of weathering on the strength of rocks. | BT-2 | Understanding | |
| 5. | Give a detail about natural causes of earthquakes and explain in detail about the earthquake belts of India. | BT-1 | Remembering | |
| 6. | Discuss in detail about the scope of geology and importance of geology in Civil Engineering. | BT-4 | Analyzing | |
| 7. | Explain physical and chemical weathering process in detail. Add a note on weathering grade and its engineering significance. | BT-2 | Understanding | |
| 8. | Explain in detail on the geological actions of streams and rivers. Write a note on its significance in Civil Engineering constructions. | BT-2 | Understanding | |
| 9. | Enumerate the geological process associated with winds. Write their engineering significance. | BT-3 | Applying | |
| 10. | List the geological process associated with sea. Write their engineering significance. | BT-4 | Analyzing | |
| 11. | (i)Give a detailed account of the erosional and depositional landforms created by the action of river.(9)(ii) List out the seismic waves and its behaviour.(4) | BT-1 | Remembering | |
| 12. | Explain the geology of groundwater and types of groundwater; Enumerate the types of aquifers system. | BT-5 | Evaluating | |
| 13. | (i) What are the deposits and features or landforms of wind?(9)(ii) Classify earthquake based on depth of focus and origin.(4) | BT-4 | Analyzing | |
| 14. | Give a detailed account of groundwater occurrence in rocks. Add a note on the porosity and permeability of rocks. | BT-1 | Remembering | |
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| | PART C | | | |
|----|--|-------|---------------|--|
| 1. | Discuss brief theory about geology in construction field in terms of any one site condition. | BT-6 | Creating | |
| 2. | Tell about geomorphological process of weathering and erosion by anyone case study. | BT-1 | Remembering | |
| 3. | List any one Landform and its relevance to Civil Engineering | BT- 4 | Analyzing | |
| 4. | Summarize about any one recent earthquake in India. | BT- 2 | Understanding | |

UNIT II- MINEROLOGY

Physical properties of minerals – Quartz group, Feldspar group, Pyroxene - hypersthene and augite, Amphibole – hornblende, Mica – muscovite and biotite, Calcite, Gypsum and Clay minerals.

PART-A

| LevelLevel1.Define mineralogy.BT-1Remembering2.Define various varieties of quartz group minerals.BT-1Remembering3.Identify the physical properties of mica.BT-3Applying4.Define mineral.BT-4Analyzing5.Identify the different physical properties of mineralsBT-3Applying6.Discuss the physical properties and uses of quartz, augite.BT-2Understanding7.What is mohr's scale of hardness?BT-1Remembering8.Discuss the physical properties and uses of hornblende, biotite.BT-2Understanding9.List out the clay group minerals and their important properties.BT-4Analyzing10.Differentiate between muscovite and biotite?BT-4Analyzing11.Define ore minerals.BT-1Remembering12.Show the isometric system of crystals.BT-1Remembering13.Define tetragonal system of crystals.BT-2Understanding14.Determine orthorhombic system of crystals.BT-2Understanding16.How will you assess the monoclinic system of crystals.BT-2Understanding17.Write about fieldspar group.BT-6Creating18.Define lusture.BT-1Remembering19.Discuss about form, streak.BT-2Understanding20.Write about hardness and specific gravity.BT-6Creating21.Write about hardness and specific gravity.BT- | Q.No | Questions | BT | Competence |
|---|------|---|-------|---------------|
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| group.Image: Constraint of the second se | 22. | Give salient features and mention important properties of Felspar | BT-1 | Remembering |
| 23.Describe about Fracture and its types?BT-4Analyzing24.Differentiate the term Axis of symmetry and twining axis.BT-3Applying25.Illustrate the term interfacial angle?BT-2Understanding | | group. | | |
| 24.Differentiate the term Axis of symmetry and twining axis.BT-3Applying25.Illustrate the term interfacial angle?BT-2Understanding | 23. | Describe about Fracture and its types? | BT-4 | Analyzing |
| 25. Illustrate the term interfacial angle? BT-2 Understanding | 24. | Differentiate the term Axis of symmetry and twining axis. | BT-3 | Applying |
| | 25. | Illustrate the term interfacial angle? | BT-2 | Understanding |
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| | PART-B | | | |
|----|--|------|---------------|--|
| 1. | List the various physical properties of minerals and describe each property with examples. | BT-1 | Remembering | |
| 2. | Tell about the physical properties of Quartz group of minerals. Explain it | BT-1 | Remembering | |
| 3. | What are the physical properties of Feldspar and Pyroxene group of minerals? Describe it. | BT-1 | Remembering | |
| 4. | What are the composition properties of(6)(i) Orthoclase feldspar(7)(ii) Microcline feldspar(7) | BT-1 | Remembering | |
| 5. | Write a detailed note on the chemical composition, physical properties, origin, occurrence, engineering behaviour and uses of clay minerals. | BT-3 | Applying | |
| 6. | Classify between mica and feldspar group of minerals. | BT-4 | Analyzing | |
| 7. | Interpret the Mineral and Rock and Describe the physical properties of minerals with examples | BT-2 | Understanding | |

STUCOR APP

| 8. | Identify the Pyroxene group of minerals and explain it briefly. | BT-3 | Applying |
|-----|---|------|---------------|
| 9. | (i) Give a detailed account of Special Properties of Minerals (7) (ii) Give in detail about Plagioclase Feldspar (6) | BT-3 | Applying |
| 10. | Distinguish the properties and importance of(7)(i) Augite(7)(ii) Hornblende.(6) | BT-4 | Analyzing |
| 11. | Explain about the properties of(7)(i) Muscovite(7)(ii) Gypsum.(6) | BT-2 | Understanding |
| 12. | Explain the physical properties of Mica group of minerals with examples. | BT-2 | Understanding |
| 13. | Explain the composition properties of (i) Biotite (7) (ii) Calcite (6) | BT-5 | Evaluating |
| 14. | Elaborate the detail about crystallographic system. | BT-6 | Creating |

| | PART C | | | |
|----|---|------|---------------|--|
| 1. | Explain the various processes of formation of ore minerals. | BT-2 | Understanding | |
| 2. | Inspect how coal and petroleum originate. Give detail account of their occurrence in India. | BT-4 | Analyzing | |
| 3. | What are the Engineering Properties of clay. | BT-1 | Remembering | |
| 4. | Illustrate the applications of various minerals. | BT-3 | Applying | |

| UNIT III | -PETROLOGY |
|-----------------|------------|
| | |

Classification of rocks, distinction between Igneous, Sedimentary and Metamorphic rocks. Engineering properties of rocks. Description, occurrence, engineering properties, distribution and uses of Granite, Dolerite, Basalt, Sandstone, Limestone, Laterite, Shale, Quartzite, Marble, Slate, Gneiss and Schist.

| | PART A | | | |
|------|---|-------|---------------|--|
| Q.No | Questions | BT | Competence | |
| | | Level | | |
| 1. | Define petrology and mention its classification. | BT-1 | Remembering | |
| 2. | Identify the importance of texture and structure of a building stone. | BT-3 | Applying | |
| 3. | Distinguish between monomineralic rock and polymineralic rock | BT-4 | Analyzing | |
| | with example. | | | |
| 4. | Compare the relative strengths of shale, sandstone and quartzite. | BT-5 | Evaluating | |
| 5. | Explain about contact metamorphism. | BT-2 | Understanding | |
| 6. | What do you mean by granulation in metamorphic petrology? | BT-1 | Remembering | |
| 7. | Describe a brief note on stratification. | BT-2 | Understanding | |
| 8. | What is meant by RMR? What is its significance? | BT-1 | Remembering | |
| 9. | Identify the various physical properties of minerals. | BT-3 | Applying | |
| 10. | Tell about the significance of determining RQD in engineering | BT-1 | Remembering | |
| | constructions. | | - | |

STUCOR APP

| 11. | Explain the structure of igneous rocks and its textures. | BT-5 | Evaluating |
|-----|--|-------------|---------------|
| 12. | Classify rocks with examples. | BT-2 | Understanding |
| 13. | Explain briefly the term metamorphic facies and mineral | BT-2 | Understanding |
| | paragenesis. | | |
| 14. | Discuss about crushing strength of a rock. | BT-6 | Creating |
| 15. | What do you mean by diagnenessis? | BT-1 | Remembering |
| 16. | Compare the strength of schidst and quartzite. | BT-4 | Analyzing |
| 17. | Write briefly about attrition test. | BT-3 | Applying |
| 18. | Define Lopoliths and dykes. | BT-1 | Remembering |
| 19. | 19. Discuss some distinguishing prime physical properties of the | | Creating |
| | metamorphic rocks. | | |
| 20. | Difference between concordant bodies and discordant bodies. | BT-4 | Analyzing |
| 21. | Illustrate the term Texture and its types? | BT-2 | Understanding |
| 22. | What are the Clastic rocks? | BT-4 | Analyzing |
| 23. | List out the structures of Metamorphic rocks. | BT-1 | Remembering |
| 24. | Give short notes about Slate. | BT-3 | Applying |
| 25. | Give examples for Igneous rocks. | BT-5 | Evaluating |
| | | | |

| | EN PART BRING | | |
|-----|--|-------------|---------------|
| 1. | What are the engineering properties of rocks to be tested for constructions of dams and tunnels and how will you determine the engineering properties of rocks at site and laboratory? | BT-1 | Remembering |
| 2. | Write an essay on engineering properties, distribution and uses of granite. | BT-3 | Applying |
| 3. | Explain in detail about the igneous rocks with neat sketch. | BT-5 | Evaluating |
| 4. | Describe the origin, texture, structure and occurrence of granite, marble and sandstone rocks. | BT-2 | Understanding |
| 5. | What is a dolerite? Describe its composition, origin and distribution. | BT-1 | Remembering |
| 6. | Define metamorphic rocks. Explain about it briefly. | BT-1 | Remembering |
| 7. | How are rocks classified? Describe the major distinguishing properties of the major rock types. | BT-4 | Analyse |
| 8. | Explain the composition, texture, characteristics, occurrence and uses of black granite, basalt, Marble. | BT-2 | Understanding |
| 9. | Discuss about the composition, texture, characteristics, occurrence and uses of limestone, schist, Gneiss. | BT-6 | Creating |
| 10. | Write a short note on(6)(i) Structure of igneous rocks(7) | BT-3 | Applying |
| 11. | Analyse the composition, texture, characteristics, occurrence and uses of laterite, Slate, Quartzite. | BT-4 | Analyse |
| 12. | Tell about the uses of major rock types and explain in detail about sedimentary rocks. | BT-1 | Remembering |
| 13. | Explain the concept on(7)(i) Texture of igneous rocks(7)(ii) Texture of metamorphic rocks(6) | BT-2 | Understanding |

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| 14. | How would you differentiate between igneous rock, metamorphic | BT-4 | Analyzing |
|-----|--|------|-----------|
| | rock and sedimentary rock on the basis of structure & texture? | DI-4 | AnaryZing |

| | PART C | | | | | |
|---|---|------|---------------|--|--|--|
| 1. Explain how the mineral textures of an igneous rocks be used to infer its origin. BT-5 Evalu | | | | | | |
| 2. | Discuss about the composition, varieties, origin and Indian Occurrence of Coal. | BT-6 | Creating | | | |
| 3. | Illustrate with examples of different types of rocks present in our earth in different site conditions. | BT-2 | Understanding | | | |
| 4. | Write a case study about rocks and mineral resource of any geological conditions in India. | BT-3 | Applying | | | |

UNIT-4- STRUCTURAL GEOLOGY AND GEOPHYSICAL METHODS

Geological maps – attitude of beds, study of structures – folds, faults and joints – relevance to civil engineering. Geophysical methods – Seismic and electrical methods for subsurface investigations.

| PART-A | | | | | |
|--------|---|------|---------------|--|--|
| Q.No | Questions SRM | BT | Competence | | |
| 1. | Name the different geological structures associated with convergent plate regimes. | BT-1 | Remembering | | |
| 2. | Discuss about Recumbent folds with a neat diagram. | BT-6 | Creating | | |
| 3. | Using a diagram, define the terms dip and strike. | BT-1 | Remembering | | |
| 4. | What are joint and joint sets? | BT-1 | Remembering | | |
| 5. | Define the term Rock Quality designation. | BT-1 | Remembering | | |
| 6. | What is meant by structural geology? | BT-1 | Remembering | | |
| 7. | Differentiate between True dip and apparent dip of rock formation. | BT-4 | Analyzing | | |
| 8. | Interpret the difference between anticline and syncline. | BT-2 | Understanding | | |
| 9. | Briefly explain the principal involved in electrical resistivity survey BT-2 Understand | | | | |
| | for sub-surface investigation. | | | | |
| 10. | With a neat sketch explain the wennersconfiguration. | BT-2 | Understanding | | |
| 11. | Write notes on faults and brief its significance. | BT-3 | Applying | | |
| 12. | Illustrate the effects of faulting. | BT-3 | Applying | | |
| 13. | 3. Identify the uses of geological maps in understanding structural BT-3 A geology of a tectonically active area. | | | | |
| 14. | Explain the engineering considerations of a folds. | BT-2 | Understanding | | |
| 15. | Classify the types of dips. | BT-4 | Analyzing | | |
| 16. | Compare Wenner and berger methods. | BT-4 | Analyzing | | |
| 17. | How do joints influence the strength of rocks? | BT-5 | Evaluating | | |
| 18. | How will you evaluate the resistivity for sub-surface investigation? | BT-5 | Evaluating | | |
| 19. | Elaborate the methods adopted for geological investigations. | BT-6 | Creating | | |
| 20. | Define outcrops. | BT-1 | Remembering | | |

STUCOR APP

| 21. | List out the faults basis on occurrence. | BT-1 | Remembering |
|-----|---|------|---------------|
| 22. | What are the engineering importance of faults and its occurrence? | BT-4 | Analyzing |
| 23. | Give short notes about Seismic methods. | BT-3 | Applying |
| 24. | Write down the classification of joints based on origin? | BT-2 | Understanding |
| 25. | Give detail about impacts of joints in engineering consideration? | BT-6 | Creating |

| | PART B | | | |
|-----|---|------|---------------|--|
| 1. | Write a detailed note on the mechanics and classification of folds and faults. | BT-3 | Applying | |
| 2. | Explain in detail the principle, procedure and applicability of seismic methods for subsurface investigations. | BT-2 | Understanding | |
| 3. | Illustrate with neat sketches on the folding processes and their civil engineering significance. | BT-2 | Understanding | |
| 4. | What are the geophysical methods that help in knowing about sub- surface features during civil engineering investigations? | BT-1 | Remembering | |
| 5. | Explain in detail about resistivity methods and Wenner configuration. Add note on its civil engineering applications. | BT-2 | Understanding | |
| 6. | Define fault. Explain in detail with neat sketches on(3)i)Normal fault(3)ii)Reverse fault(3)iii)Strike-slip fault(4)iv)Oblique fault(3) | BT-1 | Remembering | |
| 7. | (i) What are joints? Discuss the various types of joints (ii) Write about the engineering applications of folds. (6) (7) | BT-1 | Remembering | |
| 8. | How the geological investigations are conducted for sub-surface investigations using magnetic and acoustic methods? | BT-1 | Remembering | |
| 9. | Evaluate the seismic refraction survey to be conducted for determining the depth of bed rock. | BT-5 | Evaluating | |
| 10. | Analyse the joint structures with neat sketches and also write their role in dam and tunnel construction. | BT-4 | Analyzing | |
| 11. | Identify the various geological structures and their role in selection of sites for engineering projects. | BT-3 | Applying | |
| 12. | 2. Discuss in detail about the electrical method of investigation for ground water exploration. BT-6 Creating | | | |
| 13. | Write a note on gravitational method in geophysics. | BT-3 | Applying | |
| 14. | Classify the causes of faults and effects on the engineering quality of rocks. | BT-4 | Analyzing | |

| | PART C | | |
|----|--|------|---------------|
| 1. | Explain in detail about seismic survey investigation to predict the groundwater vulnerability. | BT-2 | Understanding |
| 2. | Using case studies of structural failures, discuss the importance of geological investigation for the design and construction of large | BT-6 | Creating |

STUCOR APP

| | civil structures. | | |
|----|---|------|-----------|
| 3. | Write in detail about the types of faults and their influence on dams and tunnels. | BT-3 | Applying |
| 4. | i. Classify folds in rocks and describe each type in detail. (8) ii. Give an account of the role of folds in the design of dams and tunnels. (7) | BT-4 | Analyzing |

UNIT - V - APPLICATION O F GEOLOGICAL INVESTIGATIONS

Remote sensing for civil engineering applications; Geological conditions necessary for design and construction of Dams, Reservoirs, Tunnels, and Road cuttings - Hydrogeological investigations and mining - Coastal protection structures. Investigation of Landslides, causes and mitigation.

| | PART-A | | | | | |
|------|--|-------------|---------------|--|--|--|
| Q.No | Questions | BT Level | Competence | | | |
| 1. | Define the term overlap in remote sensing. | BT-1 | Remembering | | | |
| 2. | List any four measures to prevent coastal erosion. | BT-1 | Remembering | | | |
| 3. | Define Remote sensing. | BT-1 | Remembering | | | |
| 4. | Analyse the causative factors of landslides. | BT-4 | Analyzing | | | |
| 5. | Tell about dead storage in reservoir. | BT-1 | Remembering | | | |
| 6. | What is meant by Stand-up time in tunnelling? | BT-1 | Remembering | | | |
| 7. | Differentiate between Arch and Gravity dams. | BT-4 | Analyzing | | | |
| 8. | Summarize the function of groynes in coastal protection. | BT-2 | Understanding | | | |
| 9. | Explain the term over break in tunnelling. How it can be controlled. | BT-2 | Understanding | | | |
| 10. | Outline the term Parallax in aerial Photograph. BT-2 Understanding | | | | | |
| 11. | Give a brief note on various coastal protection structures. BT-3 Applying | | | | | |
| 12. | Illustrate the applications of Satellite Imagery. | BT-3 | Applying | | | |
| 13. | Write short on sea wall and jetties in coastal protection Structures. BT-3 Applying | | | | | |
| 14. | Differentiate between swelling ground and running ground in BT-4 Analyzing Construction site. | | | | | |
| 15. | Classify the various types of aerial photographs. BT-4 Analyzing | | | | | |
| 16. | What is meant by rock bolting explain with neat sketch? | BT-1 | Remembering | | | |
| 17. | Explain the importance of pay line in tunnelling operations. | BT-5 | Evaluating | | | |
| 18. | Explain how the study of bedrocks is essential before the BT-5 Evaluating construction of tunnels. | | | | | |
| 19. | Discuss about the elements of aerial photographs. BT-6 Creating | | | | | |
| 20. | Elaborate the methods adopted for tunnelling. BT-6 Creating | | | | | |
| 21. | What are the geological problems occurring after damBT-3Applyingconstruction? | | | | | |
| 22. | Write down the objectives of geological investigation of tunnel BT-4 Analyzing construction? | | | | | |
| 23. | Give the functions of breakwater. | BT-2 | Understanding | | | |
| 24. | List any four methods to prevent landslides. | BT-1 | Remembering | | | |

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| 25. | Write the applications of remote sensing techniques. | BT-6 | Creating |
|-----|--|------|----------|

| | PART-B | | | | | |
|-----|---|------|---------------|--|--|--|
| 1. | . Explain in detail the foundation evaluation techniques and influence of geological conditions on foundation and design of dams. BT-2 Understa | | | | | |
| 2. | Identify the uses of remote sensing applications in hydrogeological and mining investigation studies. | BT-3 | Applying | | | |
| 3. | Enumerate with appropriate figures on the types, causes of landslides and their mitigation measures. | BT-5 | Evaluating | | | |
| 4. | Classify the important geological factors governing coastal process and give various coastal protection structures. | BT-4 | Analyzing | | | |
| 5. | Identify the various causes and effects of sea erosion. Add a detailed note on coastal protection measures. | BT-3 | Applying | | | |
| 6. | What are the various geological factors to be considered for the construction of dams? Explain with examples. | BT-1 | Remembering | | | |
| 7. | (i) Why jetties are built along the shoreline?(6)(ii) What are the effects of sea waves on the coastal zones?(7) | BT-1 | Remembering | | | |
| 8. | List the geological factors to be considered for the construction of road cuttings. Explain in detail. | BT-1 | Remembering | | | |
| 9. | List out the various geological factors to be considered for the construction of Reservoirs? Explain in detail with examples. | BT-1 | Remembering | | | |
| 10. | Differentiate between Dam and Reservoir and their applications. | BT-4 | Analyzing | | | |
| 11. | Classify the various geological factors to be considered for the construction of buildings? Explain in detail with examples. | BT-2 | Understanding | | | |
| 12. | Write in detail about (i) Landslides (7) (ii) Their causative effects. (6) | BT-3 | Applying | | | |
| 13. | Explain in detail about the role of aerial photographs and satellite images in planning and execution of civil Engineering projects. | BT-2 | Understanding | | | |
| 14. | Discuss in detail about the shoreline structures with neat sketch. | BT-6 | Creating | | | |

| | PART-C | | |
|----|---|------|---------------|
| 1. | Discuss the use of geospatial techniques for disaster management. Enumerate your answer with case studies on landslide mitigation adopted in the Himalayan region. | BT-6 | Creating |
| 2. | Lithological and structural aspects are the primary considerations for the selection of suitable sites and design of tunnels. Using appropriate case studies or examples explain the validity of this statement. | BT-3 | Applying |
| 3. | Using case study write a detailed account of the application of remote sensing in civil engineering. | BT-3 | Applying |
| 4. | Explain in detail the geological considerations to be taken into account during tunnelling. | BT-2 | Understanding |

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VALLIAMMAI ENGINEERING COLLEGE DEPARTMENT OF CIVIL ENGINEERING CE 8392 – ENGINEERING GEOLOGY

QUESTION BANK

| S.no | Subject | | BT1 | BT2 | BT3 | BT4 | BT5 | BT6 | Total Question |
|------|---------|--------|-----|-----|-------------------|-----|-----|-----|----------------|
| | | Part-A | 7 | 5 | 4 | 4 | 2 | 3 | 25 |
| 1 | Unit-1 | Part-B | 4 | 3 | 2 | 3 | 1 | 1 | 14 |
| - | | Part-C | 1 | 1 | - | 1 | - | 1 | 4 |
| | | Part-A | 7 | 5 | 4 | 4 | 2 | 3 | 25 |
| 2 | Unit-2 | Part-B | 4 | 3 | G ³ NE | 2 | 1 | 1 | 14 |
| | | Part-C | 1 | MA | 1 | 16 | - | - | 4 |
| | | Part-A | 7 | 5 | 4 | 4 | 2 | 3 | 25 |
| 3 | Unit-3 | Part-B | 4 | 3 | 2 | 3 | 1 | 1 | 14 |
| | | Part-C | N. | 1 | 1 | | 1 | 1 | 4 |
| | | Part-A | 7 | 5 | 4 | 4 | 2 | 3 | 25 |
| 4 | Unit-4 | Part-B | 4 | 3 | 3 | 2 | 1 | 1 | 14 |
| | | Part-C | - | 1 | 1 | 1 | - | 1 | 4 |
| | | Part-A | 7 | 5 | 4 | 4 | 2 | 3 | 25 |
| 5 | Unit-5 | Part-B | 4 | 3 | 3 | 2 | 1 | 1 | 14 |
| | | Part-C | - | 1 | 2 | - | - | 1 | 4 |

TOTAL NO.OF QUESTIONS IN EACH PART

| PART A | 125 |
|--------|-----|
| PART B | 70 |
| PART C | 20 |
| TOTAL | 190 |

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