**Part 1**

**Short answer questions**

1. What is Soil erosion?
2. Whatare the different factors on which the process of gully formation depend upon?
3. Define erosivity and erodibility?
4. What are the adverse effects of soil erosion?
5. Explain different stages of gully erosion.
6. What are the various types of gully based upon its state and shape?
7. What are the agents causing soil erosion?
8. Define USLE.
9. Why do we need to conserve soil and water?
10. Whatare the different factors on which the process of gully formation depend upon?

**Long answer questions**

1. What are the different forms of water erosion? Explain them in detail.
2. What is USLE? Explain its different components
3. What is gully? Give detail information of different types of gully?
4. Write details about soil loss estimation models (USLE)?
5. Define soil erosion and its different types and write the formula using for annual soil loss estimation?
6. What is erosivity and erodibility give a detailed information and soil loss estimation equation?
7. What is gully what are the different types of gully on different prospects?
8. What is soil erosion and write down different types of soil erosion?
9. What is annual soil loss estimation equation give detailed information about it?
10. What are the different factors causing soil erosion with write down the definition of erosivity and erodibility?
11. What are the different types and stages of gully erosion
12. What is universal soil loss equation write down its different components?
13. Write down different methods in which the soil particle moves to another place with suitable diagram?
14. Write short note on suspension, saltation and surface creep with diagram?
15. What are gullies and its types? Write down different stages of gully development?

**Part 2**

**Long answer questions**

1. What are the different types of soil erosion? Describe the engineering measures adopted to prevent soil erosion with neat schematic diagram?
2. What are the different methods for controlling soil erosion describe biological measures in details?
3. What is soil erosion and describe engineering measures for soil erosion control?
4. Write down brief information about agronomical and engineering measures?
5. What is terracing write down different types of terracing in different area?
6. Define soil erosion and different methods adopting for controlling it with respect to different slopes?
7. What is biological measures of soil erosion and write down different conventional methods under biological measures?
8. Write short notes on contour bunds, graded bunds, buffer cropping, relay cropping and zero tillage method.
9. Define biological measures and engineering measures and write down which method is adopted for controlling soil erosion in odisha?
10. How agriculture helps in controlling soil erosion? Write down different types of agronomical measures?

**Short answer questions**

1. Define contour.
2. What is biological measure with its examples?
3. What is terracing?
4. Write down different types of bunds?
5. What is engineering measure?
6. Define EI30?
7. Define KE25?
8. Write down different types of terracing?
9. What is relay cropping?
10. What is agrofoestry?

**Part 3**

**Long answer questions**

1. What are the different types of permanent gully control structures? Explain any one along with its parts and draw its schematic diagram.
2. What is wind erosion write down different methods for controlling wind erosion?
3. Define gully erosion write down different structures for controlling gully erosion with diagrams (where ever is necessary)?
4. Write down different components of drop spillway along with a neat diagram?
5. What is LUCC? Write brief notes about different soil classes?
6. Write short notes on drop spillway, drop inlet spillway and chute spillway.
7. What are different structures for controlling gully erosion with its limitations?
8. Draw a neat diagram of drop spillway showing its different parts?
9. What are the different components of a drop structure along with its functions?
10. Define gully erosion and write down different permanent and temporary gully erosion control structure?

**Short answer questions**

1. Define LUCC?
2. What is wind erosion?
3. What is drop spillway and it is used in which part of gully?
4. What are the methods adopted for controlling wind erosion?
5. What is gully?
6. Write down different components of drop spillway?
7. What is the function of an apron in drop spillway?
8. What is chute spillway?
9. Differentiate among drop, drop inlet and chute spillway?
10. Write two controlling measures for gully erosion.