



**KERALA AGRICULTURAL UNIVERSITY**  
**B.Tech.(Agrl. Engg.) 2018 Admission**  
**VI Semester Final Examination- December 2021**

Lwre.3208

**Watershed Planning and Management (1+1)**

**Marks: 50**

**Time: 2 hours**

**I Fill in the blanks**

**(10x1=10)**

1. Watershed is a piece of land area bounded by a natural ----- line.
2. The area that can be irrigated by an irrigation project is called ----- area.
3. ----- is the main contributor to loss of productivity of slopes.
4. In large watersheds time of concentration is -----.
5. The ratio of the stream length and the watershed width is referred as -----.
6. ----- is a basic tool to evaluate the occurrence and movement of water through the natural environment.
7. The size of a sub-watershed is ----- km<sup>2</sup>.
8. Micro-watershed atlas is prepared in the scale -----.
9. In the watershed code 20B1a of a Kerala watershed code B stands for-----.
10. Land is classified into ----- classes according to slope.

**II Write short notes on ANY FIVE of the following**

**(5x2=10)**

1. Watershed
2. Planning phase of watershed management
3. Watershed association
4. Wetlands
5. Need for water harvesting structures
6. Tied ridging
7. Check dams

**III Answer ANY FIVE of the following**

**(5x4=20)**

1. What are the objectives of watershed management ?
2. Explain the characteristics of a watershed.
3. What is the land use capability classification?
4. How are watersheds classified?
5. Explain the procedure for delineation of a watershed.
6. Explain the importance of land husbandry in watershed management.
7. What are the different ex-situ water conservation measures?

**IV Write an essay on ANY ONE of the following**

**(1x10=10)**

1. What are the data needed for proper planning of watershed management?
2. What is participatory resource mapping? How is it done?

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