Assignment 7

1. In a trapezoidal rectangular channel flowing at an average depth of 0.6 m carries a discharge of 0.4 m³/s. The channel slope is ________.
   a. 0.066 b. 0.016 c. 0.160 d. 0.110

2. In a hydraulic jump occurring in a horizontal rectangular channel the entrance depth is 0.635 m and 0.584 m. The energy loss in the jump is ________ m, (in 3 decimal places).
   a. 0.115 b. 0.125 c. 0.156 d. 0.162

3. For a hydraulic jump to occur, the exit depth ratio must not be less than ________.
   a. 0.3 b. 0.2 c. 0.1 d. 0.4

4. The exit depth ratio of a hydraulic jump in a rectangular channel is 0.68. The Froude number at the beginning of the jump is ________ (up to two decimal places).
   a. 0.25 b. 0.34 c. 0.37 d. 0.45

5. For horizontal and adverse slopes _________.
   a. critical b. subcritical c. supercritical d. normal

6. The differential equation of gradually varied flow (GVF) is derived based on the assumption that the pressure distribution is ________.
   a. hydrostatic b. hydrodynamical c. atmospheric d. noise

7. In a hydraulic jump at normal depth of 0.6 m carries a discharge of 0.4 m³/s, at its exit, the depth of flow is 0.4 m, the outer surface of that location is a part of the gradually varied flow of type ________.
   a. MJ b. SJ c. MM d. AD

8. The Froude number in a hydraulic jump occurring in a horizontal rectangular channel is 0.68. The exit depth ratio is ________.
   a. 0.34 b. 0.32 c. 0.13 d. 0.45

9. In a trapezoidal rectangular channel flowing at an average depth of 0.6 m carries a discharge of 0.4 m³/s. The channel average depth is ________.
   a. 0.066 b. 0.016 c. 0.160 d. 0.110

10. In a trapezoidal rectangular channel flowing at an average depth of 0.6 m carries a discharge of 0.4 m³/s. The channel slope is ________.
    a. 0.066 b. 0.016 c. 0.160 d. 0.110

11. The analysis of a hydraulic jump is based on the assumption of ________.
    a. linear momentum b. non linear momentum c. mass d. noise

12. A type of jump which is insensitive to downstream conditions is called ________ jump.