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Question Paper Code: 55A01

B.E. / B.Tech. DEGREE EXAMINATION, NOV 2020

Fifth Semester

Agriculture Engineering

15UAG501 – IRRIGATION AND DRAINAGE ENGINEERING

(Regulation 2015)

Duration: One hours

Maximum: 30Marks

PART A - (6 x 1 = 6 Marks)

(Answer any six of the following questions)

1. The ratio of the quantity of water stored in the root zone of the crops to the quantity of water actually delivered in the field is known as CO1- R
(a) Water conveyance efficiency (b) Water application efficiency
(c) Water use efficiency (d) None of the above
2. Method of improving duty is CO1- R
(a) Proper ploughing (b) Crop rotation (c) Canal lining (d) All the above
3. Which of the following method of applying water may be used on rolling land? CO2-R
(a) Boarder flooding (b) Check flooding (c) Furrow flooding (d) Free flooding
4. Lacey's regime theory is not applicable to a canal in CO2- R
(a) True regime (b) Initial regime (c) Final regime (d) None of the above
5. The major resisting force in a gravity dam is CO3- R
(a) Water pressure (b) Wave pressure (c) Self weight of dam (d) Uplift pressure
6. Bhakra dam of our country is located in the state of CO3- R
(a) Punjab (b) Himachal pradesh (c) Uttar pradesh (d) Madhya Pradesh
7. Canal outlet are also called CO4- R
(a) Canal escapes (b) Canal modules (c) Canal offtakes (d) Canal openings
8. The canal fall involving parabolic glacis is called CO4- R
(a) Straight glacis fall (b) Glacis fall (c) Inglis fall (d) Montague fall

9. The field measurement of infiltration is done_____ CO5- U
(a) Potentiometer (b) Isimeter (c) Infiltrimeter (d) Tensiometer
10. Which length of cast iron pipes used for agricultural drainage system CO5- U
(a) 3.7 and 5.5m (b) 2.8 and 3 m (c) 3.6 and 5 m (d) 4 and 5.5 m

PART – B (3 x 8= 24 Marks)

(Answer any three of the following questions)

11. Briefly discuss about water resources in India and tamilnadu. CO1- U (8)
12. Explain the different types of flooding methods. CO2- U (8)
13. Explain the factors affecting the selection of type of a dam. CO3- U (8)
14. Explain in detail about the canal outlet. CO4- U (8)
15. Explain in detail about different types of pipe materials used in agriculture drainage. CO5- U (8)