| | | 1108,11 | ••• | | | | | | | | |
|---------------------|--|----------------|---------|----------------------------|--------|------------------|---------|-------|-------|------------|------|
| | | Questi | on Pa | per Cod | le: 5 | 410 4 | 4 | | | | |
| | B.E. / | B.Tech. DE | GREE | EXAMIN | ATI(| ON, S | EP 20 | 19 | | | |
| | | | Fourtl | h Semester | | | | | | | |
| | | 1 | Civil I | Engineerin | g | | | | | | |
| | 15UCE404- WA | TER RESO | URCE | S AND IR | RIGA | ATIO1 | N EN | GINE | ERIN | I G | |
| | | | (Regul | lation 2015 | 5) | | | | | | |
| Duration: One hours | | | | Maximum: 30 Marks | | | | | | | |
| | | PAR | ГА-(| $6 \times 1 = 6 \text{ N}$ | 1arks | s) | | | | | |
| | (A | answer any | six of | the follow | ing q | uesti | ons) | | | | |
| 1. | The soil moisture useful for plant growth is | | | | | CO1- | | | | | |
| | (a) gravity water (b) addition of gypsum to soil | | | | | | | | | | |
| | (c) capillary water | | | (d) all | of th | nese | | | | | |
| 2. | With the increase in su | applied irriga | ation w | ater, the y | ield c | of crop | ps | | | | CO1- |
| | (a) Increases continuously (b) Increases upto a certain and then becomes constant | | | | | | nstant. | | | | |
| | (c) Decreases continuously (d) increases up to a certain limit and then decrease | | | | | | | ises | | | |
| 3. | The most expected crops in a hot arid district of Rajasthan State in India, in the month of Septemberare | | | | | CO2- | | | | | |
| | (a) Rice and sugarcane | ; | | (b) Ba | azar a | and m | aize | | | | |
| | (c) Wheat and maize | | | (d) To | bacc | o and | cotto | n | | | |
| 4. | The duty of irrigation water for a given crop is maximum | | | | | | | CO2- | | | |
| | (a) on the field | | | (b) at | the h | ead o | f the v | vater | cours | se | |
| | (c) at the head of main | canal | | (d) at | all p | lace | | | | | |
| 5. | If two canals are take diversion headwork, the respectively be | | | | | | | | | | CO3- |
| | (a) 1 and 1 | (b) 1 and 2 | | (c) 2 a | and 1 | | | | (d) 2 | and | 2 |
| 6. | The famous arch dam | in India is at | į | | | | | | | | CO3- |

(c) idikki

(d) nagarjuna sagar

(b) khadakvasla

(a) bhakra

| 7. | A canal escape is a structure constructed for the purpose of | | | | | | | | |
|-----|--|------------------------|------------------------|--------------------|----------|--|--|--|--|
| | (a) dissipating exc | ess energy | (b) acting as a fore | | | | | | |
| | (c) discharging wa | e | | | | | | | |
| 8. | Silt excluders are | | CO4- R | | | | | | |
| | (a) On the river bed downstream of the head regulator | | | | | | | | |
| | (b) On the river bed upstream of the head regulator | | | | | | | | |
| | (c) On the canal bed downstream of the canal head regulator | | | | | | | | |
| | | | | | | | | | |
| 9. | The process of rec | | CO5- R | | | | | | |
| | (a) leaching | (b) gypsum neutralises | (c) surcharge | (d) sub-surface of | drainage | | | | |
| 10. | Over irrigation is | | CO5- R | | | | | | |
| | (a) seepage | | (b) water logging | | | | | | |
| | (c) water management | | (d) permeablity | | | | | | |
| | | PART – B (. | 3 x 8= 24Marks) | | | | | | |
| | | (Answer any three of | f the following questi | ons) | | | | | |
| 11. | Describe the soil v | CO1- U | (8) | | | | | | |
| 12. | Derive the relation | CO2- U | (8) | | | | | | |
| 13. | Differentiate bety | CO3- U | (8) | | | | | | |
| 14. | Discuss the variou | CO4- U | (8) | | | | | | |
| 15. | Write short note o | CO5- U | (8) | | | | | | |