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Question Paper Code: 59A04

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

Fifth Semester

Agriculture Engineering

15UAG904 – WATERSHED MANAGEMENT

(Regulation 2015)

Duration: One hours

Maximum: 30Marks

PART A - (6 x 1 = 6 Marks)

(Answer any six of the following questions)

1. The form factor, circulatory ratio and elongation ratio define the_____ CO1- R
(a) Basin's shape (b) Basin's similarity
(c) Basin's relief pattern (d) None of the above
2. The shape of falling limb is CO1- R
(a) Convex (b) Concave (c) Both (a) & (b) (d) None of the above
3. Check dam can be _____structure CO2-R
(a) Temporary (b) Permanent (c) Spillway (d) Both (a) & (b)
4. Kinetic energy of raindrop is function of CO2- R
(a) Impact velocity (b) Intensity (c) Raindrop temp (d) Both (a) & (b)
5. Which is 'delayed flow' CO3- R
(a) Direct runoff (b) Base flow (c) Surface runoff (d) None of the above
6. The value of 'K' is rated from CO3- R
(a) 0 to 1 (b) 1.5 to 2 (c) 3 to 5 (d) 2 to 4
7. The drainage divide may be the CO4- R
(a) Valley (b) Ridge (c) Forest land (d) Both (a) and (b)
8. Design of farm pond is done for the return period of CO4- R
(a) 15 –years (b) 10 –years (c) 25 –years (d) 35 –years

9. In India, total number of soil conservation regions is CO5- U
(a) 10 (b) 7 (c) 5 (d) 8
10. The gully development is accomplished CO5- U
(a) 2 stages (b) 5 stages (c) 3 stages (d) 4 stages

PART – B (3 x 8= 24 Marks)

(Answer any three of the following questions)

11. Explain in detail about Land Capability classification (LCC). CO1- U (8)
12. In detail explain about stages of watershed program evaluation. CO2- Ana (8)
13. How will you design water conservation practices in irrigated lands? CO3- C (8)
Give suitable illustrations?
14. In detail explain about design and components of percolation pond. CO4- U (8)
15. Briefly explain about Watershed modeling? Give suitable flowchart. CO5- U (8)