

C14-C-504

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BOARD DIPLOMA EXAMINATION, (C-14)

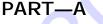
JUNE-2019

DCE—FIFTH SEMESTER EXAMINATION

IRRIGATION ENGINEERING

Time: 3 hours]

[Total Marks : 80



3×10=30

Instructions: (1) Answer **all** questions.

- (2) Each question carries three marks.
- (3) Answers should be brief and straight to the point and shall not exceed *five* simple sentences.
- 1. Give the period for Kharif season and Rabi season and list two food crops that grow in each season.
- **2.** Define : (a) Run-off, (b) Maximum flood discharge.
- **3.** List any six component parts of diversion head work.
- 4. Distinguish between Low dam and high dam.
- **5.** List the functions of canal regulator.
- 6. List any three types of guide banks with sketches.
- 7. List any six advantages of drip irrigation.
- 8. List any six duties of water user association.(WUA)
- 9. List any three rain water harvesting structures.
- **10.** State the necessity of water shed Management.

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Instructions : (1) Answer *any* **five** questions.

- (2) Each question carries **ten** marks.
- (3) Answers should be comprehensive and the criterion for valuation is the content but not the length of the answer
- **11.** (a) State the relation between duty, delta and base period.
 - (b) Explain the factors that effect the Duty.
- **12.** Explain with a sketch to compute the rainfall over a particular catchment area by Theissen's polygon method.
- **13.** Describe the component parts of a diversion head work with a neat sketch.
- **14.** (a) Give the comparision between Barrage and weir.
 - (b) State any five factors for selecting suitable site for diversion works.
- **15.** Explain any five causes of failures of earthen dams and their preventive measures.
- **16.** Explain with neat sketch the construction joints and contraction joints in gravity dams.
- **17.** Define canal lining. Give any four advantages and four disadvantages of canal lining.
- **18.** (a) Explain any five ill effects of water logging.
 - (b) Explain different stages of flow of river.

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