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B.TECH.

THEORY EXAMINATION (SEM–VIII) 2016-17

RIVER ENGINEERING

Time : 3 Hours ***Max. Marks : 100***

Note : *Be precise in your answer. In case of numerical problem assume data wherever not provided.*

SECTION – A

1. Explain the following: **10 x 2 = 20**

(a) Explain about a grading type of river?

(b) How are the rivers in the alluvial plains classified?

(c) Write a note on delta formation?

(d) Describe about Braided Rivers?

(e) How does Stream restoration works influence the social and cultural environment?

(f) What is flood plain?

(g) Define sediment?

(h) Outline the merits of Bio-engineering Techniques?

(i) Mention the objectives of river training?

(j) List out the purpose of a gryon?

SECTION – B

2. Attempt any five of the following questions: **5 x 10 = 50**

(a) What do you understand by river morphology? Explain Rosgen classification system of rivers in detail?

(b) Differentiate between the following :

(i) Flashy and Virgin rivers

(ii) Aggrading and degrading rivers

(c) Describe on the causes of meandering and explain the factors controlling the meandering process?

(d) What are cut-offs? How are they used for river training?

(e) Explain about the mechanics of alluvial rivers? Also discuss on the socio-cultural influences of stream restoration?

(f) Summarize the different steps involved in the natural channel design and analysis of a stream?

(g) What are the uses of guide banks? Explain the salient features of guide banks?

(h) Write short notes on

(i) pitched islands

(ii) leeves

(iii) bandalling

SECTION – C

Attempt any two of the following questions: **2 x 15 = 30**

3 (i) Discuss in detail about the classification of rivers? Give its features?

(ii) Explain in brief the various parameters responsible for the instability of rivers?

4 (i) What is stream restoration? What are the ethics of stream restoration?

(ii) Outline the basic concept of Bio-engineering Techniques? Explain any two in detail?

5 How are river training works classified? Explain about any two types of river training works in a detailed manner?

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