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Sixth Semester B.E. Degree Examination, Dec.2015/Jan.2016
Hydraulic Structures & Irrigation Design Drawing

Time: 4 hrs.

Max. Marks:100

- Note: 1. Answer any TWO full questions from Part-A and any ONE question from Part-B.*
 2. Assume any missing data suitably.

PART – A

1. a. Explain different storage zones of a reservoir. (04 Marks)
 b. Define the terms density currents and economic height of a dam. (04 Marks)
 c. A proposed reservoir has capacity of 500 ha-m. The catchment area is 125 km² & the annual stream flow averages 120 mm of runoff. If the annual sediment production is 0.03 ha-m/km², what is the probable life of the reservoir before its capacity is reduced to 10% of its initial capacity by sedimentation? The relationship between trap efficiency ($\eta\%$) and capacity inflow ratio C/I is as follows: (07 Marks)

C/I	0.01	0.02	0.04	0.06	0.1	0.2	0.3	0.5	0.7
$\eta\%$	43	60	74	80	87	93	95	96	97

2. a. Define Gravity dam with a neat sketch. Explain the various forces acting on Gravity dam. (08 Marks)
 b. Determine the maximum & minimum vertical stresses to which the foundation of the dam will be subjected from the following data:
 Total over turning moment about toe, $\Sigma M_o = 1.2 \times 10^6$ kN-m
 Total resisting moment about toe, $\Sigma M_p = 2.5 \times 10^6$ kN-m
 Total vertical force about toe $\Sigma V = 6 \times 10^4$ kN
 Base width of the dam = 55 m
 Slope of d/s face = 0.8 : 1
 Also calculate the maximum principal stress at the toe. Neglect tail water depth. (07 Marks)
3. a. Explain different types of earthen dams with neat sketches. (06 Marks)
 b. Explain the causes for failure of earthen dam. (09 Marks)

PART – B

4. Design a canal drop (Notch type) for the following particulars: (25 Marks)

Particulars	U/s Canal	d/s canal
Full supply discharge	10 m ³ /s	10 m ³ /s
Bed level	+120.0 m	+118.0 m
Full Supply level	+121.5 m	+119.5 m
Bed width	8.0 m	8.0 m
Top level of embankment	+122.5 m	+120.5 m
Top width of embankment	2.0 m	2.0 m
Side slopes	1 : 1 (Cut)	1.5 : 1 (Fill)
Average Ground level	120.5 m	120.5 m

Hard soil is available at 118.5 m.

Draw to a suitable scale:

- (i) Half plan at top & half at foundation. (20 Marks)
 (ii) Half elevation & half longitudinal section (15 Marks)
 (iii) Cross-section along the canal. (10 Marks)

Hydraulic Structures Irrigation Design Drawing

H Kauffman



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