

Name: _____ Hall Ticket No.

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Answer All Questions. All Questions Carry Equal Marks. Time: 20 Min. Marks: 10.**I Choose the correct alternative:**

1. The main characteristic curves are obtained by _____ and constant gate opening On the turbine. []
(A) Constant discharge (B) constant head (C) constant speed (D) Constant power
2. Example for inward radial flow of reaction turbine is []
(A) Pelton wheel (B) Kaplan turbine (C) Francis turbine (D) Propeller turbine
3. Jet angle at inlet denotes _____. []
(A) α (B) ζ (C) Ψ (D) None
4. Net head means _____. []
(A) $H_g * h_f$ (B) h_f / H_g (C) $H_g - h_f$ (D) $H - h$
5. The ratio of load that a piece of equipment actually draws when it is in operation to the load it could draw is called _____. []
(A) Utilization factor (B) Load factor (C) Diversity factor (D) Hydro potential
6. If multi stage centrifugal pumps for high discharge the pumps should be connected in _____. []
(A) Perpendicular (B) parallel (C) cross (D) series
7. In pelton wheel the width of buckets are _____. []
(A) $5d$ (B) $3d$ (C) $6d$ (D) $2d$
8. A pelton wheel is a _____. []
(A) Low head (B) Medium (C) High head (D) jet
9. The vanes are fixed on hub that type of turbine is called _____. turbine []
(A) Mixed flow (B) radial flow (C) axial flow (D) tangential flow
10. The jet ratio is define as the ratio of pitch diameter of the wheel to _____. []
(A) Diameter of jet (B) diameter of shaft (C) diameter of couple (D) diameter pipe

Cont.....2

II Fill in the blanks:

11. Hydraulic machines which convert the _____ energy into hydraulic energy .
12. The horizontal component of Absolute velocity is _____ velocity.
13. Utilization factor means_____.
14. NPSH rmeans _____.
15. Unit discharge formula _____.
16. The water enters the impeller in radial direction , then velocity of whirl at inlet is _____.
17. In outward radial flow reaction turbine the outer diameter of runner is equal to _____.
18. Centrifugal pump consists of series of _____ curved vanes.
19. The shape of bucket in Pelton wheel is _____.
20. _____ type turbine, when water flow radially from outwards to inwards through the runner.

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