

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)  $\alpha$       (B)  $\zeta$       (C)  $\Psi$       (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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1. Net head means \_\_\_\_\_. [     ]  
(A)  $H_g * h_f$                       (B)  $h_f / H_g$                       (C)  $H_g - h_f$                       (D)  $H - h$
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10. Jet angle at inlet denotes \_\_\_\_\_. [     ]  
(A)  $\alpha$                       (B)  $\zeta$                       (C)  $\Psi$                       (D) None

**Cont.....2**

**II Fill in the blanks:**

11. NPSH means \_\_\_\_\_.
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17. \_\_\_\_\_ type turbine, when water flow radially from outwards to inwards through the runner.
18. Hydraulic machines which convert the \_\_\_\_\_ energy into hydraulic energy .
19. The horizontal component of Absolute velocity is \_\_\_\_\_ velocity.
20. Utilization factor means \_\_\_\_\_.

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