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NPTEL

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Courses » Principle of Hydraulic Machines and System Design

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Unit 2 - Introductory Session

Course outline

How to access the portal

Introductory Session

Quiz :
Assignment 00

Week 1 -
Principle of
Operation of
Hydraulic
Machines

Week 2 - Radial
and Axial Flow
Pumps

Week 3 - Radial
Flow Pump
Operational
Issues

Week 4 - Pump
Design: Degrees
of Reaction

Week 5 - Pump
Characteristics
and System
Design

Week 6 -
Positive
Displacement
Pump

Assignment 00

The due date for submitting this assignment has passed.

As per our records you have not submitted this **Due on 2018-07-08, 17:00 IST.** assignment.

Try to answer all these questions of assignment w00a00. This is an introductory assignment. Your performance in this assignment will not be added in your final evaluation of grade.

1) "A change in pressure at any point in an enclosed fluid at rest is transmitted undiminished to all points in the fluid" this principle is popularly named after **1 point**

- Delton
 Pascal
 Boyle
 Langmuir

No, the answer is incorrect.

Score: 0

Accepted Answers:

Pascal

2) For positive displacement pumps, with change in pressure the flow rate **1 point**

- Increases
 Decreases
 Remains Constant
 None

No, the answer is incorrect.

Score: 0

Accepted Answers:

Remains Constant

3) Which of the following are the examples of impulse turbine? **1 point**

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Turbine:
Reaction Turbine

No, the answer is incorrect.

Score: 0

Accepted Answers:

Pelton wheel

Turgo turbine

4) Reaction turbine has more hydraulic efficiency than impulse turbine

1 point

true

false

No, the answer is incorrect.

Score: 0

Accepted Answers:

false

5) In a turbomachine, the work is done either on the fluid or by the fluid.

1 point

True

False

No, the answer is incorrect.

Score: 0

Accepted Answers:

True

6) Which of the following is not a part of hydraulic pump?

1 point

Impeller

Runner

Diffuser

Nozzle

No, the answer is incorrect.

Score: 0

Accepted Answers:

Runner

Nozzle

7) The human heart mimics the operation procedure of a

1 point

Centrifugal pump

Rotodynamic pump

Positive displacement pump

Jet pump

No, the answer is incorrect.

Score: 0

Accepted Answers:

Positive displacement pump

8) Which of the following is the differential form of Classical Bernoulli's equation?

1 point

Navier-Stokes equations

Euler equation

Stokes equation

none of the above

No, the answer is incorrect.

Score: 0

Accepted Answers:

Euler equation

9) In a converging pipe section with an inlet diameter of 0.5m and outlet diameter of 0.3m, water enters with a velocity 5m/s. What will be the pressure difference between inlet and outlet of that pipe section in kPa?

Hint

No, the answer is incorrect.

Score: 0

Accepted Answers:

(Type: Range) 83.82-84.11

1 point

10) A hydraulic pump produces 50kJ/m³ kinetic energy per unit volume. Calculate amount of net head produced by it in meters?

Hint

No, the answer is incorrect.

Score: 0

Accepted Answers:

(Type: Range) 5.09-5.11

1 point

11) Based on principle of operation, fluid machines are classified into positive displacement machines and turbo machines.

1 point

True

False

No, the answer is incorrect.

Score: 0

Accepted Answers:

True

You were allowed to submit this assignment only once.

End

