Assignment 09

The due date for submitting this assignment has passed. As per our policy you have not submitted this assignment.

1. Consider the statements below
   (a) All pressure probes can be used to measure pitch angle.
   (b) Pressure probes which are sensitive to the change in flow direction can only be used to measure the pitch angle.
   (c) Only if correct
   (d) Both are correct
   (e) None are correct

   No, the answer is incorrect. Score: 0
   Accepted Answer: Only (b) is correct

2. A thin-wall probe is used to measure a
   (a) Two dimensional flow field
   (b) Three dimensional flow field
   (c) Both (a) and (b)
   (d) None of the above

   No, the answer is incorrect. Score: 0
   Accepted Answer: Both (a) and (b)

3. A thin-wall probe can be used to measure the pitch characterization of the flow

   True
   Accepted Answer: True

4. A thin-wall probe having two symmetric pair of holes in addition to a central hole can be used to measure a
   (a) Two dimensional flow field
   (b) Three dimensional flow field
   (c) Both (a) and (b)
   (d) None of the above

   No, the answer is incorrect. Score: 0
   Accepted Answer: Both (a) and (b)

5. A hole probe can measure
   (a) Pitch angle
   (b) Pitch angle and yaw characteristics
   (c) Both pitch angle and yaw characteristics
   (d) None of the above

   No, the answer is incorrect. Score: 0
   Accepted Answer: Both pitch angle and yaw characteristics

6. The role of the central hole in a 3-hole probe is to measure the total pressure
   True
   Accepted Answer: True

7. Dial gauge is used for measuring
   (a) Torque
   (b) Radial speed
   (c) Power
   (d) All of the above

   No, the answer is incorrect. Score: 0
   Accepted Answer: All of the above

8. Power take-off dynamometer is a
   (a) Absorption type dynamometer
   (b) Transmission type dynamometer
   (c) Electric dynamometer
   (d) None of the above

   No, the answer is incorrect. Score: 0
   Accepted Answer: Absorption type dynamometer

9. Belt transmission dynamometer is a
   (a) Absorption type dynamometer
   (b) Transmission type dynamometer
   (c) Electric dynamometer
   (d) Hydrostatic dynamometer

   No, the answer is incorrect. Score: 0
   Accepted Answer: Transmission type dynamometer

10. Frictional heating is an important issue that can act as a source of error in a power take-off dynamometer

   True
   Accepted Answer: True