

INDUS INSTITUTE OF TECHNOLOGY & ENGINEERING

Constitute Institution of Indus University

SECOND CLASS TEST (2019)

Course: B.TECH **Semester:** 7th

Branch: Mechanical Subject Name: Energy Conservation & Management

Date: 11/10/2019

Day:FridaySubject Code:ME0709Time:2:30 To 2:15 PMMax. Marks:20 Marks

Q-1 Multi Choice Questions (5)

- (1) Non contact flow measurement can be carried out by
- a) Turbine flow meter b) Orifice meter c) Magnetic flow meter d) Ultrasonic flow meter
- (2) Scale losses will
- (a) will have no relation with excess air (b) will increase with nitrogen in air
- (c) increase with excess air (d) decrease with excess air
- (3) Of the following which are the property is most important for an insulating brick
- (a) Mechanical strength (b) Porosity (c) Compact strength (d) Chemical property
- (4) The term blanket refers to
- (a) Refractory brick (b) Ceramic fiber (c) Insulating brick (d) Castables
- (5) The ceramic recuperators can withstand temperatures upto:
- (a) 400° C (b) 1700° C (c) 1300° C (d) 1400° C
- Q 2 Explain briefly the difference between preliminary and detailed energy audits? (5)
- Q 2 Explain the working of recuperator type heat exchanger in detail. (5)
- Q 3 Discuss the various types of heat losses in a boiler? (5)
 OR
- Q 3 What are the benefits of insulation? (5)
- Q 4 What is heat wheels? Explain with sketch. (5)