LECTURERS IN GOVERNMENT POLYTECHNIC COLLEGES (ENGINEERING AND NON-ENGINEERING) IN A.P TECHNICAL EDUCATION SERVICE. - NOTIFICATION NO.23/2018

AUTOMOBILE ENGINEERING- 12TH MAR 2020 – S2 – REVISED KEY

Question Number : 22 Question Id : 18424222

Baffles are used in shell and tube type of heat exchangers to:

Answer:

**deviate flow without any effect**

**increase the heat transfer coefficient**

Question Number : 36 Question Id : 18424236

In reciprocating pumps, the acceleration pressure head is maximum at the:

Answer:

**beginning and end of the stroke**

Question Number : 46 Question Id : 18424246

Transducers for the measurement of temperature make use of:

Answer: Deleted

Question Number : 54 Question Id : 18424254

Which of the following methods is used for the measurement of flow rate of a liquid?

Answer:

- Coriolis method
- Thermal mass flow method
In two wheelers, which scavenging method is used?

Answer:

**Loop scavenging**

For a front-wheel drive empty car, the average proportional front to rear axle load distribution is:

Answer: Deleted

When a 12 V lead acid battery is fully charged, its open circuit voltage is:

Answer:

**12.6 V**

Miller indices denotes:

Answer:

**direction**

**family of direction**

Spheroidising treatment improves:

Answer:

**machinability of high carbon steels**
Question Number : 95 Question Id : 18424295

Which of the following equations represents the total frictional torque \((T)\) induced in a multiple disc clutch, assuming it as uniform wear? (Consider \(n\) – number of pairs of contact surfaces, \(\mu\) – coefficient of friction, \(r_1\) – radius of external face of the friction plate, \(r_2\) – radius of internal face of the friction surface.)

Answer:

\[
T = n \mu W \frac{r_1 + r_2}{2}
\]

Question Number : 131 Question Id : 184242131

Which of the following equations accurately represents the milling power \((P_m)\) in horse power unit? (Consider: \(K_m\) – milling power constant, \(C\) – feed factor constant and \(W\) – tool wear constant.)

Answer: Deleted