

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

Question Number : 56 Question Id : 18424256

In two wheelers, which scavenging method is used?

Answer:

**Loop scavenging**

Question Number : 59 Question Id : 18424259

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

Answer: Deleted

Question Number : 62 Question Id : 18424262

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

Answer:

**12.6 V**

Question Number : 77 Question Id : 18424277

Miller indices denotes:

Answer:

**direction**

**family of direction**

Question Number : 78 Question Id : 18424278

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:  $K_p$  – milling power constant,  $C$  – feed factor constant and  $W$  – tool wear constant.)

**Answer: Deleted**