

ZTE Written Test Paper

Technical Section:

Q1. A force that averages 984N is applied to a 0.42kg steel ball moving at 13.8 m/s by a collision that lasts 0.027s. If the force is in a direction opposite to the initial velocity of the ball, what is the final speed of the ball?

- a) 77.1m/s
- b) 63.3m/s
- c) 13.8m/s
- d) 49.5m/s

Q2. Negative rake angle

- a) increases cutting force
- b) decreases cutting force
- c) no effect on cutting force
- d) none of the above

Q3. A 16 ohm resistor and 8 ohm resistor are connected in series across a 12V battery. What is the voltage across each resistor respectively?

- a) 8V, 4V
- b) 4V, 8V
- c) 12V, 12V
- d) 6V, 6V

Q4. Machine ability of steel is improved by the presence of

- a) Nickel
- b) Tungsten
- c) Sulphur
- d) Chromium

Q5. How many of the following statements regarding sound are true?

- 1) Intensity depends on the square root of the amplitude.
- 2) Loudness only depends on the intensity of a sound.
- 3) The pitch of a sound depends on the frequency.
- 4) Sound is reflected whenever a change in acoustic impedance is encountered.

- a) Only one
- b) Only two
- c) Only three
- d) All four

Aptitude:

Q6. Salary of one officer increases every year by 20%. His salary in the year 2001 was Rs. 26640. What was his salary in 1999?

- a) 20000
- b) 19028
- c) 18500
- d) 18840
- e) None

Q7. There is a church tower 150 feet tall and another catholic tower at a distance of 350 feet from it which is 200 feet tall. There is one each bird sitting on top of both the towers. They fly at a constant speed and time to reach a grain in between the towers at the same time. At what distance from the church is the grain?

ANS: 90

Q8. In the following series only one number is wrong. Find out that number:
19, 28, 39, 51, 67, 84, 103

- a) 19

- b) 28
- c) 39
- d) 51
- e) 67

Q9. In the following series only one number is wrong. Find out that number:
5, 12, 7, 10, 3, 8, 2

- a) 12
- b) 7
- c) 10
- d) 3
- e) 8

Q10. A person is 80 years old in 490 and only 70 years old in 500, in which year is he born?

ANS: 470

Q11. A person wants to meet a lawyer and as that lawyer is busy he asks him to come three days after the before day of the day after tomorrow. On which day the lawyer asks the person to come?

ANS: Thursday