

# Essar Placement Papers

Test Date : 3 August 2006

ESSAR GROUPS PLACEMENT PAPER ON 3rd AUGUST 2006 AT ANNNA UNIVERSITY

Hi friends,

The Company procedure is Written Test (Aptitude Test & Technical Test), Group Discussion, Technical Interview and HR Interview. I want to share my experience with you all.

The aptitude test consists of 3 sections – Verbal reasoning, Quantitative Aptitude and Logical Reasoning comprising of 120 questions in 40 questions from each section.

Some of the aptitude questions are:

1.  $\sqrt{156.25} * \sqrt{14.25} = 35 * X$  what is the value of X?  $X = 1.25$
2.  $A + 8450 \div 650 = 13 + A$ . What is the value of A?  $A = 0$
3. The sum of a number whose ? th is 45. What is the number? Ans: None
4. The sum of a 2 digit number is equal to the difference between them. Find how many such numbers are possible? Ans: 10
5. The sum of a 2 digit number is equal to twice the difference between them. Find how many such numbers are possible?
6.  $1000.01 - 100.01 - 10.01 = X$ . what is X?  $X = 889.99$
7.  $0.25\% \text{ of } 10 - 10\% \text{ of } 0.25 = 25\% \text{ of } 100 - 100\% \text{ of } X$ . What is X?  $X = 25$
8. One – fifth of two – third of a number is equal to 24. What is the number?

9.  $100\$8 - 2\$39 = \$319$ . What is  $\$?$   $\$ =$  None of these

10. Ajith and Ajay's age are in the ratio of 3:5. Two years hence, their age are in the ratio 7:11. What is Ajith's present age? Ajith's age = 12.

11. The length of a train is 200m and it crosses a platform of 75m in 15sec. Another train with a length of 180m which is on the opposite direction approaches it. How long it will take to cross the other?

12. (X) – Square, % - Square root, # - Divide, \* - Multiply, @ - addition and & - Subtraction. Find the value of  $(4)\#4\%4*4@4$

13. Solve  $30 - 0.05 * 20 + 10 \div 5 = ?$

14. A circle of diameter 28 cm. If there is a rectangle of length 56 cm. What is the value of breadth whose areas are equal? Breadth = 44cm

15. A wheel rotates 18 revolutions in 4.5 sec. What are the revolutions of the wheel per minute? Revolutions = 240

16. Solve: 20% of 60% of a number is equal to 40% of 200. What is the number?

17.  $252 \times 253 = ? 252 + 3$

18. Series: 5 5 7.5 15 37.5 112.5 339.75 X

19. Trisha's monthly salary is 25% more than Krishna's salary but 25% less than Payal's salary. Krishna's annual income is Rs. 1, 20, 000. What is the monthly income of Payal?

20. There is a seven consecutive odd numbers. What is the number greater than 6 and it is smaller than 6?

Technical Aptitude:

1. Work done is Zero for which process? Ans: Constant Volume

2. Which cycle has high efficiency? Ans: Otto Cycle

3. The power of 2 –stroke engine varies from 4 – stroke engine by\_\_\_\_\_. Ans: Twice

4. Sudden reduction in barometer leads to \_\_\_\_\_. Ans: Storm

5. Composition of Stainless steel \_\_\_\_\_. Ans: Chromium, Nickel ...

6. Gears are produced in mass production by \_\_\_\_\_. Ans: Hobbing

7. Pick out the wrong statements:

a) The good fuel should have high calorific value

b) Ease in storing

c) High ignition point

d) Low smoke and gases Ans: (C)

8. Composition of Gun metal \_\_\_\_\_. Ans:

9. Gears are commonly called with \_\_\_\_\_. Ans: Pitch Circle Diameter
10. A good fuel should have \_\_\_\_\_ ignition point. Ans: Low
11. If heat supplied into the system is 30000 J/S and the power output is 9KW. What is the efficiency of system? Ans:
12. A square rod of 2cm x 2cm of which a force of 8800Kg is acting on it. What is the stress developed in it? Ans: 2200 Kg/cm<sup>2</sup>
13. GNATT chart shows\_\_\_\_\_
14. Which is the high efficiency freezing agent? Ans: Freon 22
15. Property of the freezing agent is: Ans: Low boiling point and high melting point
16. A diesel engine, that is, slow speed engine follows which cycle? Ans: Diesel Cycle
17. Hardness is the property of \_\_\_\_\_. Ans:
18. A Rotary compressor depends on \_\_\_\_\_.
19. The potential energy raised upwards \_\_\_\_\_ the kinetic energy downwards. Ans: is equal to
20. Centipoise is the unit of \_\_\_\_\_. Ans: Dynamic Viscosity
21. For a thermodynamic system, the COP is 5 and the heat supplied to the system is 1 KW. What is the work done?