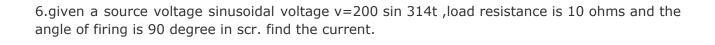# Jindal Steel And Power Sample Paper
Questions

1. average of a 4 member family 10 years ago is 24 . in these 10 years a pair of twins come into the family. but yet after 10 years, the average remains 24. find the age of the twins.

options: 3, 4 , 5 , none of the options.

2.two persons are in election. 55% of the valid votes are with one person and 20% of votes are invalid.

total number of votes are 7500.

find the number of votes with other person.

ans: 2700

3.percentage questions.

4. a man sells 4 t.v in the cost price of 5 t.v . find profit %

5.to check in details.

as 3 options given : a big series , to check if all are similar.

6. 10 questions in verbal ability.

a) to choose similar words from options given.

b) 2 boring comprehension passages.

c) Appropriate use of preposition in sentences

7) 3 questions on computation as * for + , - for / , like that.

8. Case study sort of.. given some conditions..f the students to be admitted to a college..and so to answer if admitted or not.

Technical questions. All 60 objective questions.

1.equation of the transportation problem.

2. auto-correlation has which symmetry : even symmetry

3. given a pcm has bit rate as 36000 bits/sec. and maximum fm = 3.2 khz. find the sampling rate.

4.some questions were with 8051 chip.

5.highest priority in interuppt in 8085 is :

6.given a source voltage sinusoidal voltage v=200 sin 314t ,load resistance is 10 ohms and the angle of firing is 90 degree in scr. find the current.

options 10, 5 , 5√2,

7. turn on time for a scr is ----- than turn off time.

8. the coefficient of pd controller

is k = sinwt/wa , -sinwt/wa , costwt/wa , -coswt/wa.

9. what does hold signal represent in 8085.

10.The peak voltage in half wave rectifier is v and power is p. what will be the value of voltage and power in a full wave bridge rectifier , if other conditions unchanged.

a)V , P b) 2V, P , c)2V,2P

11.in a semiconverter , the firing angle is 60 degree. what is the conduction angle for the Scr present.

12. Given a G(s) 1/(s-1)(s+2)(s+3). how many times will it encircle the origin in a nyquist plot.

13. Given a routh table with 2 rows as S4 1 2 4

   S3 10 20 ,then find the number of roots lying in RHS side of x plane.

14. in 8085, the length of general purpose registers ?

15. what is cycloconvertor (changes higher frequency to lower one and vice-versa in one step)

16. what should be the width of pmos w.r.t nmos, so that current loss is minimum. (This was based on the fact that nmos construction requires lesser area than pmos for the same amount current flowing through it)

17. number of overlap scr conducting in 1 phase full wave rectifier.

18. blind speed can be rectified by changed by ....

19. What type of digital circuits dont depend on the input from previous states . combinational circuits

20. Which component of superhetrodyne receivers provide image frequency selectivity.

21. Given an ampitude modulated x(t) = 20 sin100wt + 10sin300wt - 20sin50wt. find fm.

22. If the amplitude of a FM wave is made two times , then what will be its effect on the frequency deviation of the wave.

23. What is quantization.

24. If the value of e (damping ratio) is 0