

SHREE H N. SHUKLA GROUP OF COLLEGE

Question Bank Paper 401

Physics

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1. What is analog signal?
2. What is digital signal?
3. Why NAND gate and NOR gate are called universal gate?
4. What is Boolean algebra?
5. Full form of word FSD and MSD in binary number system?
6. A JFET is a _____ controlled device.
7. What is a bridge circuit?
8. Which bridge can be used to measure specific conductivity of an electrolyte?
9. Which bridge can be used to measure frequency?
10. Write the condition for the bridge balance.
11. What is the unit of specific heat?
12. Define closed system.
13. Define open system.
14. In Carnot's cycle second operation is _____ expansion.
15. Which gas show heating effect in porous plug experiment at room temperature.
16. Define Specific Heats of a gas.
17. Define the first law of thermodynamics.
18. Define Stefan-Boltzmann law.
19. What is black body?
20. The Rayleigh-Jeans law holds good for _____ wavelengths.
21. LEDs made from GaAs emit _____ light and LED made from GaP emit _____ light.
22. Seven segments is the application of the _____.
23. Other name of the Varacter diode is _____.
24. Why varacter diode is not operating in forward biased?
25. The word Thermistor is a combination of _____.
26. What are NTC and PTC?

27. Draw the symbol of thermistor.
28. Which type of material are used for making thermistor?
29. What is dark current?
30. What is pinched-off in JFET?
31. Define the trans-conductance (g_m).
32. Give the full form of UJT.
33. MOSFET is also known as _____.
34. The power factor of an R-L circuit lies between ___ and _____.
35. In a series C-R circuit, voltage _____ the current.
36. Write a short note on solar cell.
37. Explain NAND gate and NOR gate are called universal gate.
38. Explain Phase shift oscillator.
39. Explain Hartley oscillator.
40. Explain TD diagram.