

Jindal Steel And Power Technical Questions

- Q1. CMRR is expressed commonly in ---.
- Q2. Which filter is used for extracting SSB output?
- Q3. What type of waveform is produced by RC oscillator?
- Q4. Difference between inverter and oscillator output.
- Q5. For a 6 phase 60 Hz half wave rectifier, what is the triple frequency of the output?
- Q6. Which of the following modulation is digital?
- a) PCM
 - b) PAM
 - c) PWM
 - d) PTM
- Q7. Which method of ctrl removes offset?
- Q8. What is the equation of PID?
- Q9. What is the integrated value of step function?
- Q10. Differentiate the value of const function.
- Q11. What is the kidney dialysis method(artificial) called?
- Q12. What is the quantity analogous to current in pneumatics?
- Q13. What is the quantity analogous to mass in rotational motion?
- Q14. Which theorem is not used in filters?
- ANS:** Nortons theorem
- Q15. Which of these is UHF?

- a) 68MHz
- b) 16.8MHz
- c) 168MHz
- d) 1680MHz

Q16. A compression member is a short column when slenderness ratio is.....

ANS: less than 12

Q17. For most durable buildings which kind of wood is used?

Q18. CBR test is done for checking what property?

Q19. The top view of orthographic projection is called a

- a) elevation
- b) plan
- c) key plan
- d) none of these

Q20. What is the hollow portion provided on brick top called?

Q21. Hardness and tensile strength can be increased by which process?

Q22. Geneva mechanism will be used in?

Q23. Velocity of a body while ascending will be more or less than the velocity while descending?

Q24. Biot number is used for solid or liquid?

Q25. What is the relation between Poisson's ratio and young modulus?

Q26. Time of flight in projectile motion is?

Q27. Bearing is made up of which material for carrying high load?

Q28. Double PN junction is used in ---.

- a) rectifier
- b) transistor
- c) photo voltaic cell

Q29. If the velocity of a body on two different points on radius of a circle are given than find the radius of that circle?

Q30. Gear ratio is defined as ----.

Q31. If load will be increased on free end of cantiliver beam than it will break 4m fixed or free end?

Q32. Tension on tight side of rope drive will be?

Q33. What is the formula for Coefficient of fluctuation of speed in governor?

Q34. Boundary separation will occur when press gradient will-----.

Q35. Elongation in tapered bar will be ----.

Q36. Small numerical on parallel flow heat exchanger?

Q37. Grashoof number expression.

Q38. Shear stress on principal plane is?

Q39. Reynolds number is---

Q40. Expression of torque in hollow and solid shaft.

Q41. The weakest part in flange coupling is---

ANS: key

Q42. When a mass of critically damped style, degree of freedom of system is deflected from its equilibrium position and then it is released then-----.

ANS: It will oscillate with increasing time period.

Q43. Cage is provided in ball bearing to ----.

ANS: keep balls in position

Q44. $30(+0.05)(-0.03)$ is-----.

ANS: bilateral type of tolerance.

Q45. For large power transmission, square threads ---.

- a) wear out
- b) less efficient
- c) production is costly

Q46. The gear which resists axial thrust---

ANS: Herringbone gears

Q47. The process of joining two metals is-----.

- a) sintering
- b) thumbling
- c) coining

Q48. Ratchet is provided in micrometer screw gauge to ----

ANS: maintain uniform pressure

Q49. Strain energy is ----.

ANS: The energy stored up to elastic limit.

Q50. Taper angle is measured by-----.

- a) Sine bar
- b) bevel protector

Q51. A centrifugal governor is ----.

- a) Hartnell
- b) Porter
- c) Proell

Q52. Numerical on Gate design?

Q53. Equivalent length in saw is measured from----.

- a) start point to finish point
- b) from first teeth to last teeth

Q54. Anemometer is used for measuring ----.

- a) temperature of air
- b) velocity of air
- c) viscosity of fluid

Q55. In neutral equilibrium, position of meta center is ---.

ANS: coincides with center of gravity.

Q56. If young's modulus increases, what is the change on thermal coefficient of expansion?

Q57. Kaplan turbine-

- a) low head
- b) high discharge

Q58. Strain- $(L-l)/L$.

Q59. Economiser is used for---

ANS: Pre heating feed water.

Q60. In reciprocating compressor, clearance is provided for---

ANS: cushioning effect and saves the piston from hitting the cylinder head.

Q61. Function of governor is ---.

ANS: maintain a constant speed in parting load conditions.

Q62. Heat Transfer from hot body to cold body takes place without affecting intervening medium is ----.

ANS: radiation.

Q63. When conduction will not take place?

ANS: when temperature of both bodies are equal.

Q64. Which of these defines pitch circle diameter?

- a) circular pitch
- b) module
- c) diametral pitch
- d) All of these.

Q65. Which governor is known as dead weight governor?

ANS: Porter governor.

Q66. Property which resist elastic deformation---

ANS: stiffness.

Q67. Continuous beam is a beam with---

ANS: more than 2 supports.

Q68. What is the permissible BOD of waste water?

Q69. For self locking of screw-

ANS: helix angle > friction angle.

Q70. Involute profile is preferred in gears because-----.

ANS: It transmits maximum power.