

## Latest Brakes India Sample Written Test Paper

### **GENERAL AWARENESS:**

**Q1. WTO meeting recently held at -----**

- a) Cancun
- b) Jakarta
- c) Geneva

**Q2. Opposite of PHENOMENAL-----**

**ANS:** ordinary

**Q3. Which European country does not have the same currency-----?**

- a) U.K
- b) Spain
- c) France
- d) Germany

**Q4. Commerce minister of India -----**

**ANS:** Arun Jaitley.

**Q5. Governor of RBI (Reserve Bank of India)-----.**

- a) S. Rangarajan
- b) Sivathanu pillai
- c) Y.V.Reddy
- d) Bimal Jalan

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**Q6. First car using CRDI is-----**

- a) Hyundai Accent
- b) Skoda Octavia

**Q7. Economic Growth Rate is measured by-----**

- a) GDP
- b) inflation
- c) GNP

**Q8. Selection Committee Leader of Indian cricket team-----**

- a) Kiran More
- b) Syed kirmani
- c) Brijesh patel

**Q9. First Indigenous car sold in European market-----**

- a) Tata Indica
- b) M&M scorpio
- c) Fiat palio

**Q10. Meaning of URGE-----**

- a) desire
- b) strength
- c) forceful
- d) demand

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**Q11. HALs(Hindustan Aeronautical Limited) indigenous aircraft  
-----**

- a) Tejas
- b) Trishul
- c) Danush

**Q12. Meaning of apprehend**

**ANS:** fear

**Q13. Opposite of obscure**

**ANS:** explicit

**Q14. ISRO chairman-----**

**ANS:** Madhavan Nair.

**Q15. Find in which part Grammatical /idiomatic error occurs in the sentence:**

Yesterday while/crossing the road/he was/ run out by a lorry.

**Q16. What is the name of the robot presented by Japan to Indonesia?**

**ANS:** Azimo Honda

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### TECHNICAL:

**Q17. Kelvin plank law deals with**

- a) Conservation of work into heat
- b) conservation of heat into work

**Q18. Which chart takes care of control attributes?**

- a) P chart
- b) C chart
- c) R chart

**Q19. Geneva mechanism is used for -----.**

**ANS:** Intermittent motion

**Q20. Section modulus of hollow shaft**

**ANS:**  $\frac{\pi}{32} * (D^4 - d^4) / D$

**Q21. In V belt drive contact is made on**

- a) bottom
- b) sides
- c) bottom and sides

**Q22. Flexible coupling is used because**

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**Q23. Down milling is also called ----.**

**ANS:** Climb milling

**Q24. Section view of C washer?**

**Q25. Washer is used to provide ----.**

**ANS:** Bearing area.

**Q26. Drilling is an example of**

**ANS:** Oblique cutting

**Q27. Deflection of simple supported beam carrying UDL  $\frac{5}{384} \frac{Wl^4}{EI}$**

**Q28. Initial tension is considered in ---.**

**Q29. Soldering alloy consists of ---.**

**ANS:** Tin and lead

**Q30. Spheroidal cast iron is getting from Grey cast iron by adding ----.**

**ANS:** Mg

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**Q31. ----- is used for holding the work piece without disturbing the tool path.**

**ANS:** Fixture

**Q32. Why chromium is used in steel alloys?**

**ANS:** Corrosive resistance

**Q33. High cutting speed is obtained while ---.**

**ANS:** machining

**Q34. Metal forming is an example of ---.**

**ANS:** chipless machining

**Q35. Top rake angle is provided for ----.**

**ANS:** Easy removal of chip

**Q36. Alloying is done for increased ----.**

**ANS:** strength and application

**Q37. Transformer is used welding ---.**

**Q38. In throttling process Enthalpy constant is ---.**

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**Q39.** 70 cc of engine means ---.

**ANS:** swept volume

**Q40.**  $\tan(\alpha) =$

**ANS:** coefficient of friction

**Q41.** Centroidal distance of a semi circle?

**ANS:**  $\frac{4r}{3\pi}$

**Q42.** In centreless grinding, the grinding wheel and the regulating wheels rotate in the --- direction.

**ANS:** same

**Q43.** State Newtons three laws of motion.

**Q44.** What is Pascals Law?

**Q45.** What are Boyles law, charles law?

**Q46.** What is spring constant?

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**Q47.** In a balloon, both pressure and volume varies when you blow it. How will you apply boyles law in this situation?

**Q48.** State Bernoullis theorem and its application.

**Q49.** What is Reynolds number? Where is it used? Can it be used in brakes?

**Q50.** What are the types of springs?

**Q51.** What is specific gravity? What is its Unit?

**Q52.** Explain screw guage and vernier caliper.

**Q53.** What are the types of protective coating?

**Q54.** What is 1 micron?

**Q55.** What is focal Length? Give the unit of power of lens.