

# ITI Workshop calculation and Science

## Important Definitions (महत्वपूर्ण परिभाषाएं)

- 1. ठोस (Solid):** ठोसों का आकार और आयतन निश्चित होता है। जैसे – पत्थर, लोहा, कार्क आदि।
- 2. तरल (Liquid):** तरल पदार्थों का आयतन तो निश्चित होता है परन्तु आकार निश्चित नहीं होता है। वे बह (Flow) सकते हैं। जैसे – तेल, पानी, दूध आदि।
- 3. गैस (Gas):** इनका आयतन व आकार निश्चित नहीं होता है। जैसे ऑक्सीजन, हाइड्रोजन आदि।
- 4. यौगिक (Compound):** जब दो या दो से अधिक तत्वों को किसी भी रासायनिक क्रिया द्वारा निश्चित अनुपात में मिला दिया जाये तो प्राप्त हुए नए पदार्थ को यौगिक कहते हैं। इसमें मूल तत्वों को देख नहीं सकते हैं तथा उनके गुण भी बदल जाते हैं। जैसे – पानी, नमक आदि।
- 5. मिश्रण (Mixture):** जब दो या दो से अधिक तत्वों को साधारण प्रक्रिया द्वारा बिना अनुपात में मिला दिया जाये तो प्राप्त हुआ पदार्थ मिश्रण कहलाता है। मिश्रण में इसके मूल तत्वों को आसानी से देखा जा सकता है।
- 6. लचीलापन (Elasticity):** यदि किसी धातु पर बल लगाया जाये और उसके आकार में परिवर्तन हो जाये और बल हटाने पर धातु अपने मूल आकार में आ जाये तो इस गुण को लचीलापन कहते हैं।
- 7. Plasticity:** धातुओं पर लगा बल हटाने पर यदि धातु मूल आकार में न आवे तो ऐसे गुण को प्लास्टिसिटी कहते हैं। ऐसी धातुओं को दबाकर उनका आकार बदला जाता है।
- 8. तन्वता (Ductility):** धातुओं का गुण जिसके कारण इनके तार खींचे जा सकें, तन्वता कहलाती है।
- 9. अपत्याध्वर्यता (Malleability):** धातुओं का गुण जिसके कारण उन्हें पीटकर या रोलिंग चादरों (Sheets) में बदला जा सके, अपत्याध्वर्यता कहलाता है।
- 10. कडापन (Hardness):** ऐसा गुण जिसके कारण धातुएं दूसरी धातुओं पर खरोंच डाल देती हैं या उन्हें घिसा देती हैं।
- 11. भंगुरता (Brittleness):** चोट मारने पर धातु यदि टूट कर बिखर जाये तो वह गुण भंगुरता कहलाता है।
- 12. Weldability:** वह गुण जिसके कारण धातुओं को आसानी से वेल्डिंग द्वारा जोड़ा जा सकता है।
- 13. लो कार्बन स्टील (Low Carbon Steel):** इसको माइल्ड स्टील भी कहते हैं, हम आईटीआई में जिस धातु की प्लेट से जोड़ बनाने हैं उसे ही लो कार्बन स्टील या माइल्ड स्टील या MS प्लेट कहते हैं। इसमें कार्बन की मात्रा 0.25% तक होती है। इसकी फोर्जिंग, वेल्डिंग तथा मशीनिंग आसानी से की जा सकती है। यह मैकिणकल व इन्फ्रस्ट्रक्चर होता है। इसे हार्ड और टेम्पर नहीं किया जा सकता है परन्तु इसकी केस हार्डनिंग की जा सकती है।
- 14. मीडियम कार्बन स्टील:** इसमें कार्बन की मात्रा 0.25% से 0.70% होती है। इसका प्रयोग तार, पाइप, छोटे एक्सेल, साधारण हाथ के औजार, स्ट्रिंग आदि बनाने में किया जाता है।
- 15. हाई कार्बन स्टील:** इसमें कार्बन की मात्रा 0.70% से 1.5% तक होती है। इसे हार्ड और टेम्पर किया जा सकता है। इसका प्रयोग छेनी, रेती, डार्ट, ड्रिल, शाफ्ट आदि बनाने में किया जाता है।

# Iti Workshop Calculation Science Paper

**Anthony S. Fauci**



## **ITI Workshop Calculation Science Paper:**

*Engineering Drawing & Workshop Calculation and Science MCQ* Manoj Dole, Engineering Drawing Workshop Calculation and Science MCQ is a simple Book for ITI Engineering Drawing Workshop Calculation and Science Subject Revised NSQ F Syllabus It contains objective questions with underlined bold correct answers MCQ covering all topics including all about the latest Important about geometrical figures using drawing instruments freehand drawing of machine components in correct proportions procedure to prepare a drawing sheet as per BIS standard learning about projection methods auxiliary views and section views Lettering tolerance metric construction technical sketching and orthographic projection isometric drawing oblique and perspective projection fasteners welds and locking devices training on allied trades viz Hand Tools Fitter Turner Machinist Sheet Metal Worker Welder Foundry man Electrician and Maintenance Motor Vehicles Workshop Calculation and Science include Unit Fractions Square Root Ratio Proportion Ratio Proportion Material Science Mass Weight and Density Speed and Velocity Work Power and Energy Algebra Mensuration Trigonometry Heat Temperature Basic Electricity Levers and Simple Machines Geometrical construction theorem Area of cut out regular irregular surfaces Volume of cut out solids Material weight and cost Forces definition Thermal Conductivity Average Velocity Graph Centre of gravity Heat treatment Concept of pressure and lots more **ITI Refrigeration and Air Conditioning**

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**Indian Science Abstracts** ,1994 *CAD/CAM Abstracts* ,1988 [International Research Centers Directory](#) ,2009

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In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is actually astonishing. Within the pages of "**Iti Workshop Calculation Science Paper**," an enthralling opus penned by a very acclaimed wordsmith, readers embark on an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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