T-LEVELS

300 Onsite Construction

2. Construction science principles

Multiple choice questions (learner)

- 1. Mortar is best mixed by?
 - a. Weight
 - b. Bags
 - c. Volume
 - d. Silo
- 2. When a beam deflects under a load the force in the top of the beam is called?
 - a. Shear
 - b. Bending
 - c. Tension
 - d. Compression
- 3. Which is the test for workability of concrete?
 - a. Compaction
 - b. Slump
 - c. Silt
 - d. Cube
- 4. In order for rust to occur in a ferrous metal, water, iron and what must be present?
 - a. Air
 - b. Copper
 - c. Oxygen
 - d. Carbon
- 5. The definition of work is?
 - a. Gravity x distance
 - b. Conversion to power
 - c. Rate of energy
 - d. Energy transferred by force





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6. A type of renewable fuel used to produce energy is?



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a. Gasb. Windc. Nucleard. Coal

7. Domestic voltage use is?

a.	12v				
b.	110v				
C.	230v				
d.	400v				
8. The two components in the calculation of stress are force and?					
	Area				
	Volume				
	Weight				
d.	Mass				
9. What part of the building regulations govern the structure?					
a.	R				
	A				
	R				
d.					
G.					
10. A U-va	alue is used to measure what from a building element?				
	3				
a.	Heat gain				
b.	Long-term maintenance				
C.	Economic stability				
d.	Heat loss				
11. The orientation of a building maximises?					



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- a. Sunshine
- b. Shading
- c. Daylight
- d. Cooling
- 12. Sound is measured in units of?
 - a. Newtons
 - b. Decibels
 - c. Pressure
 - d. Volume
- 13. The approved document that deals with the reduction of sound is?
 - a. E
 - b. F
 - c. G
 - d. J
- 14. Low energy artificial lighting is called?
 - a. Incandescent
 - b. Halogen
 - c. Fluorescent
 - d. LED
- 15. Condensation can be removed from a home by?
 - a. Additional heating
 - b. Closing all windows
 - c. Extract ventilation
 - d. Management of Data Regulations
- 16. A hole for services should be drilled through a beam at the?
 - a. Beam top
 - b. Neutral axis
 - c. Ends
 - d. Middle





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17. A	bending	moment	is	force	x ?
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- a. Gravity
- b. Reaction
- c. Width
- d. Distance

18. Reaction forces have to equal what force?

- a. Opposite
- b. Shear
- c. Gravitational
- d. Strain
- 19. The average time for curing concrete is how many days?
 - a. 5
 - b. 6
 - c. 7
 - d. 8
- 20. A test to determine how much water a brick can hold is know as a?
 - a. Corrosion test
 - b. Gauging test
 - c. Compressive test
 - d. Absorption test



