

.Concrete is good at resisting stress

hog ☐

sag ☐

compressive ☒

tensile ☐



.Your answer is correct

الإجابة الصحيحة هي: compressive

.dead load is a load that never changes

صح ☒

خطأ ☐

When a beam is subjected to compression stress, the bottom part is generally in tension, as you rightly say

صح ☐

خطأ ☒

الإجابة الصحيحة هي "خطأ"

.concrete is poor at resisting tensile stress as it's prone to failure by fracturing suddenly

صح ☒

خطأ ☐

الإجابة الصحيحة هي "صح"

.A connection between members which flexes is called a rigid joint

صح ☐

خطأ ☒

الإجابة الصحيحة هي "خطأ"

.By adding cross-members, a frame is, making it stiffer

rigid-jointly ☐

braced ☒

pin-jointed ☐

weaken ☐



Live load is a moving load, such as one which produces a sudden shock but lasts for only a brief moment

صح ☐

خطأ ☒

الإجابة الصحيحة هي "خطأ"

.A load which is concentrated - that is, one which acts on a small area

Uniformly distributed load ☐

Point load ☒

Static load ☐

Dynamic Load ☐



.A fan is designed to be driven by a flow of air or gas

صح ☐

خطأ ☒

الإجابة الصحيحة هي "خطأ"

Examples of simple machines are: (This question has multiple answers)



screw driver ☒



spanner ☒

welding machine ☐



lever ☒

.Your answer is correct

الإجابات الصحيحة هي: screw driver, spanner, lever

.Resistance to acceleration or deceleration, due to the mass of an object, is called gravity

صح ☐

خطأ ☒

الإجابة الصحيحة هي "خطأ"

.Some valves can be partly closed to regulate a flow, reducing its rate

صح ☒

خطأ ☐

الإجابة الصحيحة هي "صح"

The process of exothermic is when (This question has multiple answers)



.latent heat of fusion occurs ☐

a gas condense to become a liquid ☒

a liquid solidifies to become a solid ☒

.latent heat of vaporization occurs ☐

.Your answer is correct

الإجابات الصحيحة هي: a liquid solidifies to become a solid, a gas condense to become a liquid

Acceleration is the increase or decrease of velocity that is achieved each second and is
.measured in meters per second squared

صح ☒

خطأ ☐

الإجابة الصحيحة هي "صح"

At 100 °C, water ----- . (this question has multiple answers)



vaporizes ☒



evaporates ☒



condenes ☐

boils ☒

.Your answer is correct

الإجابات الصحيحة هي: vaporizes, boils, evaporates

.Waste water will exit the plant via a (6) ----- on the western edge of the site



hose ☐

drain ☒

pipe ☐

sewer ☐

In gas form, water is called ----- . (This question has multiple answers)



steam ☒

ice ☐



Water vapour ☒

coolaide ☐

.Your answer is correct

الإجابات الصحيحة هي: steam, Water vapour

.A safety valve is an outlet which releases excess pressure

صح ☒

خطأ ☐

a description of design objectives

Sketch ☐

Design brief ☒

Preliminary drawing ☐

Concept ☐



إجابتك صحيحة

الإجابة الصحيحة هي: Design brief

states that 'Anything that can go wrong, will

Worse-case scenarios ☐

Belt and braces ☐

Specifications ☐

Murphy's Law ☒



إجابتك صحيحة

الإجابة الصحيحة هي: Murphy's Law

..... Effective structural capability of concrete is

day strength-28 ☒

day strength-18 ☐

day strength-8 ☐

day strength-20 ☐



A layer of rust in steel can be categorized as

an alloy ☐

a compound ☒

a mixture ☐

an element ☐



إجابتك صحيحة

الإجابة الصحيحة هي: a compound

.The height of the tower is measured horizontally

صح ☐

خطأ ☒

.A working drawing- that is, one that the production or construction team can work to

✓ صح ☒

خطأ ☐

الإجابة الصحيحة هي "صح"

Stainless steel contains chromium as metal

a reinforcing ☐

an additive ☐

a matrix ☐

an alloying ☒



The is the maximum overall external width of a pipe



the outside diameter ☒

the circumference ☐

the inside diameter ☐

the radius ☐

إجابتك صحيحة

الإجابة الصحيحة هي: the outside diameter

.Silver is a precious metal. It is a better electrical conductor than copper

صح ☒

خطأ ☐

.....:3D view, with corner of the object at the front



an isometric projection ☒

an oblique projection ☐

a section ☐

a plan ☐

إجابتك صحيحة

الإجابة الصحيحة هي: an isometric projection

.The elements that make up a compound are chemically bound

صح ☒

خطأ ☐

For most engineering and architectural uses, annealed glass is suitable

صح ☐

خطأ ☒

الإجابة الصحيحة هي "خطأ"

. The thickness of each tower decreases towards the top, so the faces of the towers are plumb

صح ☐

خطأ ☒

الإجابة الصحيحة هي "خطأ"

.The height of the towers is measured vertically

صح ☐

خطأ ☒

الإجابة الصحيحة هي "صح"

..... Smaller strands can be made into engineering wood with structural properties, such as

Glue -laminated ☐

Orientated Strand Board ☒

Plywood ☐

Particle ☐



. The overall span is measured along the length of the bridge

✓ صح ☒

خطأ ☐

الإجابة الصحيحة هي "صح"

..... Copper (Cu) is a

a ferrous metal ☐

an alloy ☐

a non-Metal ☐

a non-ferrous metal ☒



The external wall runs along gridline A, and the internal corridor wall runs along gridline C, so the walls are with each other



parallel ☒

perpendicular ☐

intersect ☐

chain ☐

إجابتك صحيحة

الإجابة الصحيحة هي: parallel

Most drawing produced on computers using..... software



plan ☐

CAD ☒

general arrangement ☐

.A rough, hand-drawn illustration is a preliminary design

صح ☐

خطأ ☒

الإجابة الصحيحة هي "خطأ"

.Steel is a metallic element

صح ☐

خطأ ☒

الإجابة الصحيحة هي "خطأ"

.For cost reasons, components shouldn't be overdesigned

صح ☒

خطأ ☐

الإجابة الصحيحة هي "صح"

Are these already on the market - Are they the products

budget ☐

existing ☒

featured ☐

proposed ☐



..... Enlarged drawings show components larger than their

general arrangement ☐

scale ☐

actual size ☒

schematics ☐



إجابتك صحيحة

الإجابة الصحيحة هي: actual size

.The bolt won't fit tightly enough in the hole, so there'll be too much play

صح ☒

خطأ ☐

.Softwood is always made from multiple pieces or particles of wood

صح ☐

✓ خطأ ☒

الإجابة الصحيحة هي "خطأ"

.Elastomers are very elastic polymers which can be stretched by force

✓ صح ☒

خطأ ☐

الإجابة الصحيحة هي "صح"



Little deviation allowed

Tight tolerance ☒

Outside tolerance ☐

Within tolerance ☐

Loose tolerance ☐

إجابتك صحيحة

الإجابة الصحيحة هي: Tight tolerance

.The greatest thickness of each tower is its internal thickness at its base

صح ☐

خطأ ☒

.In an alloy, an alloying metal is the biggest constituent, by percentage

صح ☐

خطأ ☒

الإجابة الصحيحة هي "خطأ"

..... The highest point of a horizontal pipe is called



the crown ☒

the chord ☐

the arch ☐

the invert ☐

إجابتك صحيحة



Carbon (C) is a

non-metal ☒

metal ☐

non-ferrous ☐

ferrous ☐

إجابتك صحيحة

الإجابة الصحيحة هي: non-metal

Some material is lost in the washing process, but the mass of water absorbed is greater than the mass of material lost. So there's a net in total mass

supply ☐

gain ☒



concrete is one of the most widely used construction materials

Reinforcement ☐

Reinforcing ☐

Reinforced ☒

Reinforce ☐



إجابتك صحيحة

الإجابة الصحيحة هي: Reinforced

Car windscreens are made by bonding glass to a polymer, such as PVB, to form a type safety .glass

صح ☒

خطأ ☐

The curve in the motorway has a constant radius, so the inside and outside edges of the road
.are arcs of two concentric circles that have the same centre

صح ☒

خطأ ☐

الإجابة الصحيحة هي "صح"

. The greatest thickness of each tower is its internal thickness at its base

صح ☐

خطأ ☒

الإجابة الصحيحة هي "خطأ"

.Mild steel contains more iron than high carbon steel

✓ صح ☒

خطأ ☐

الإجابة الصحيحة هي "صح"

We don't need dimensions and positions at this stage. We just need a showing how
.many branches come off the main supply pipe



sketch ☒

concept ☐

design brief ☐

design solution ☐



..... Makes drier concrete easier to work with

Plasticizer ☒

Fine aggregate ☐

Coarse aggregate ☐

Batching ☐

إجابتك صحيحة

الإجابة الصحيحة هي: Plasticizer

سؤال 1

لم يتم الإجابة

علم السؤال

In engineering, force is called

.....

Load

☒

Stress

☐

Weight

☐

Strain

☐

سؤال 2

لم يتم الإجابة

علم السؤال

Woods may have knots in it

Solid wood ☐

Engineered wood ☐

Softwood ☐

All answer ☒

سؤال 3

لم يتم الإجابة

علم السؤال

a circuit that can be populated with a large number of components

Parallel

☐

Printed

☒

Integrated

☐

Power

☐

سؤال 4

لم يتم الإجابة

علم السؤال

Wastewater from different smaller
..... pipes flows into the larger

drain



mains



pipeline



sewer



سؤال 5

لم يتم الإجابة

علم السؤال

The distance crossed by a bridge
between its supports is called

Plum ☐

Span ☒

Length ☐

Height ☐

سؤال 6

لم يتم الإجابة

علم السؤال

..... Gravel used in concrete is

Fine aggregate ☐

Plasticizer ☐

Additives ☐

Coarse aggregate ☒

سؤال 7

لم يتم الإجابة

علم السؤال

Powder that enables concrete to set
is cement

صح ☒

خطأ ☐

سؤال 8

لم يتم الإجابة

علم السؤال

Gas welding uses

- ☐ burning gas
- ☐ a separate welding rod which is not an electrode
- ☐ a shielding gas generated by burned oxyfuel
- ☒ All of the above

سؤال 9

لم يتم الإجابة

علم السؤال

Exothermic- processes means that,
substances need to absorb heat from
a heat source

صح ☐

خطأ ☒

سؤال 10

لم يتم الإجابة

علم السؤال

When vertical members can no longer resist a load they either crush or

sag ☒

squash ☐

buckle ☐

fracture ☐

سؤال 11

لم يتم الإجابة

علم السؤال

When vehicle tyre is compressed against the road surface, the wheel deforms.

صح ☐

خطأ ☒

سؤال 12

لم يتم الإجابة

علم السؤال

A worst-case scenario means

Designing for the most ☒ extreme conditions

Designing for normal ☐ conditions

Designing for best conditions ☐

All of the above ☐

سؤال 13

لم يتم الإجابة

علم السؤال

..... One type of safety glass is

Tempered glass ☒

Annealed glass ☐

Float glass ☐

All answer ☐

سؤال 14

لم يتم الإجابة

علم السؤال

The electricity supply from PVs can
be used to charge rechargeable
batteries

صح

☒

خطأ

☐

سؤال 15

لم يتم الإجابة

علم السؤال

low alloy steels, which contain
..... or more iron

20% ☐

90% ☒

50% ☐

70% ☐

سؤال 16

لم يتم الإجابة

علم السؤال

are pipes used for.....
moving air that is not under
pressure- usually for heating or air
conditioning

duct ☒

hose ☐

mains ☐

pipeline ☐

سؤال 17

لم يتم الإجابة

علم السؤال

A simple machine is something which provides a mechanical advantage

صح



خطأ



سؤال 18

لم يتم الإجابة

علم السؤال

Velocity is measured in

.....

m^3/s ☐

m/s ☒

m^2/s ☐

m/s^2 ☐

سؤال 19

لم يتم الإجابة

علم السؤال

This has been superseded. It's not
.the current drawing

صح ☒

خطأ ☐

سؤال 20

لم يتم الإجابة

علم السؤال

An airtight tank usually contains gas
.that is under pressure

صح ☐

خطأ ☒