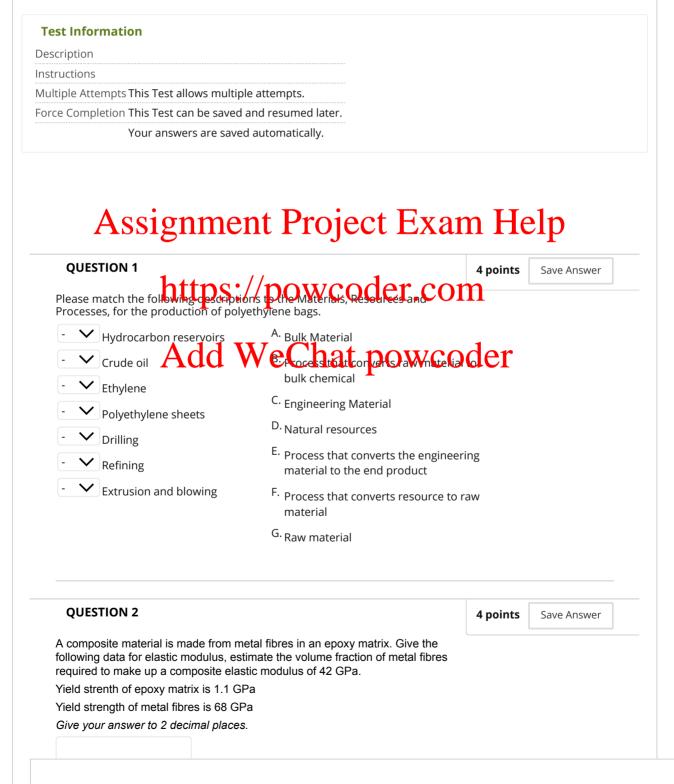
Take Test: Module A sample questions



 ¥ Question Completion Status:

Material	Yield Strength (MPa)	Ultimate Tensile Strength (MPa)	Elongation at Fracture (%)	Fracture Strength (MPa)	Young's Modulus (GPa)
Α	840	840	0.1	830	390
В	12	36	200	32	1.4
С	425	460	8	445	75
D	125	150	25	130	75
Е	170	360	20	295	121
F	775	1060	9.4	950	200

-	~	Material	C
---	---	----------	---

✓ Material D

/ Material A

/ Material F

✓ Material B

- I. is very likely the hardened version of Material D?
- II. is the strongest?
- III. is most likely to have the highest melting point?
- IV. is the closest to a rubbery polymer?
- V. exhibits an almost identical elastic region to Material C, up to the lowest yield point of both?

Assignment Project Exam H

In geophysics, which physical property *cannot* be detected using electromagnetic, magnetic or seismic pethyds?

- Thermal conductivity Thermal c
- O Electrical conductivity
- Add WeChat powcoder O Bulk density
- Magnetic susceptibility
- Acoustic velocity

QUESTION 5

5 points

Save Answer

Calculate how much energy is required to grind an ore from an F₈₀ 294 microns down to a P80 34 microns, if the Bond Word Index of the ore was 14.48 kWh/t. Give your answer in kWh/t to 1 decimal place.

QUESTION 6

3 points

Save Answer

Which of the following statement(s) is *correct*?

☐ Nanomaterials have low embodied energy and carbon footprint because they are small.

→ The sur	face area of a material decreases when converting it to nano-particl	es.	
QUESTIC	DN 7	4 points	Save Answer
Which of th	e following statement(s) is <i>correct</i> ?		
☐ 3D prin	ing is also called additive manufacturing		
	ing is an alternative manufacturing process that uses only renewab es to make end products.	le	
	nting is generally a fast process, compared to conventional acturing methods.		
An obje	ct can be created by 3D printing by adding layers of material.		
	ring is an alternative manufacturing process that converts raw/bulk ls to end products.		
QUESTIC	https://poweoder.com		Save Answer
QUESTICE Which of enswer) Hydrog		points	
QUESTICE Which of eanswer) Hydrog Atherm	the following statements is true (may be more than one en has the hydrestolatin where fall that powco	points	
QUESTICE Which of eanswer) Hydrog Atherm	the following statements is true (may be more than one en has the material atin where all fall powco all battery stores heat energy.	points	
QUESTICE Which of eanswer) Hydrog A therm Transp Hydrog	the following statements is true (may be more than one en has the material atin where all fall powco all battery stores heat energy. Ort powered by fossil fuels emits no greenhouse gases.	points	
QUESTIC Which of answer) Hydrog A therm Transp	the following statements is true (may be more than one en has the hardest powco all battery stores heat energy. Out powered by fossil fuels emits no greenhouse gases. en has zero carbon footprint in its life cycle as a fuel. en can be made by gasification of biomass.	points	
QUESTIC Which of enswer) Hydrog A therm Transp Hydrog Hydrog QUESTIC	the following statements is true (may be more than one can has the relegional following statements is true (may be more than one can has the relegional following statements is true (may be more than one can has the relegional following statements is true (may be more than one can battery stores heat energy. Ont powered by fossil fuels emits no greenhouse gases. In has zero carbon footprint in its life cycle as a fuel. ON 9 In grave Life Cycle Analysis (LCA) consists of 5 distinct steps. Order the	n points der 4 points	Save Answer
Which of answer) Hydrog A therm Hydrog Hydrog Whydrog Could be a cradle-to ollowing fr	the following statements is true (may be more than one can has the relegional following statements is true (may be more than one can has the relegional following statements is true (may be more than one can has the relegional following statements is true (may be more than one can battery stores heat energy. Ont powered by fossil fuels emits no greenhouse gases. In has zero carbon footprint in its life cycle as a fuel. ON 9 In grave Life Cycle Analysis (LCA) consists of 5 distinct steps. Order the	n points der 4 points	Save Answer
Which of answer) Hydrog A therm Hydrog Hydrog Whydrog Could be a cradle-to ollowing from the answer)	the following statements is true (may be more than one en has the help atin Vice all full powco all battery stores heat energy. Ort powered by fossil fuels emits no greenhouse gases. En has zero carbon footprint in its life cycle as a fuel. En can be made by gasification of biomass. ON 9 Orgrave Life Cycle Analysis (LCA) consists of 5 distinct steps. Order the om 1 to 5:	n points der 4 points	Save Answer
Which of answer) Hydrog A therm Hydrog Hydrog Hydrog Cuestic A cradle-to ollowing from the collowing f	the following statements is true (may be more than one en has the release the attribute call fall to powco all battery stores heat energy. Ort powered by fossil fuels emits no greenhouse gases. en has zero carbon footprint in its life cycle as a fuel. en can be made by gasification of biomass. ON 9 grave Life Cycle Analysis (LCA) consists of 5 distinct steps. Order the om 1 to 5: roduct manufacture	n points der 4 points	Save Answer
Which of answer) Hydrog A therm Hydrog Hydrog Hydrog Cuestic A cradle-to following from the properties of the prop	the following statements is true (may be more than one can has the Agricum ating live fall fall powco all battery stores heat energy. Out powered by fossil fuels emits no greenhouse gases. It is in a green footprint in its life cycle as a fuel. En can be made by gasification of biomass. ON 9 In grave Life Cycle Analysis (LCA) consists of 5 distinct steps. Order the om 1 to 5: In roduct manufacture It is a grave to the following statements in true (may be more than one t	n points der 4 points	Save Answer

 ${\it Click Save \ and \ Submit\ to \ save\ and\ submit.\ Click \ Save\ All\ Answers\ to\ save\ all\ answers.}$

¥ Question Completion Status:

Your team has 3 sets of seismic data from 3 locations and has to decide which one to recommend for drilling.

	Site 1	Site 2	Site 3
^Z bottom layer	5 x 10 ⁶	4.5 x 10 ⁶	5.7 x 10 ⁶
Z _{top layer}	1.5 x 10 ⁶	2.5 x 10 ⁶	1.2 x 10 ⁶

Order the sites according to which one you think has the most likelihood of finding a resource underneath.

-	~	Site 1
-	~	Site 2
-	~	Site 3

QUESTION 11

4 points

Save Answer

Distillation is the separation of crude oil fractions, based on differences in their boiling points. Order the following fractions from the lowest boiling, to the highest boiling.



-	V	Heptane (C ₇ H ₁₆)	
		-	



Kerosene (https://powcoder.com

alt

Lubricating Ols

dd WeChat powcoder

QUESTION 12

4 points

Save Answer

Your team has 3 sets of seismic data from 3 locations and has to decide which one to recommend for drilling.

Acoustic Impedance Z	Site 1	Site 2	Site 3
Z _{top} layer	4.4 x 10 ⁶	6.9 x 10 ⁶	2.3 x 10 ⁶
Z _{bottom} layer	8.5 x 10 ⁶	8.8 x 10 ⁶	9.4 x 10 ⁶

Write down the largest reflection coefficient R, to 2 decimal places, below.

QUESTION 13

4 points

Save Answer

Epoxy matrix and metal fibres make up a composite material. Estimate the volume fraction of metal fibres required to make up a composite elastic modulus of 41 GPa.

 ¥ Question Completion Status:

Assignment Project Exam Help https://powcoder.com Add WeChat powcoder