

حل الاختبار المقترح للدرس الأول منتصف الفصل منهج انسباير



تم تحميل هذا الملف من موقع المناهج الإماراتية

موقع المناهج ⇨ المناهج الإماراتية ⇨ الصف الحادي عشر المتقدم ⇨ فيزياء ⇨ الفصل الثاني ⇨ ملفات متنوعة ⇨ الملف

تاريخ إضافة الملف على موقع المناهج: 2026-02-05 12:40:22

ملفات اكتب للمعلم اكتب للطالب | اختبارات الكترونية | اختبارات | حلول | عروض بوربوينت | أوراق عمل
منهج انجليزي | ملخصات وتقارير | مذكرات وبنوك | الامتحان النهائي | للمدرس

المزيد من مادة
فيزياء:

التواصل الاجتماعي بحسب الصف الحادي عشر المتقدم



صفحة المناهج
الإماراتية على
فيسبوك

الرياضيات

اللغة الانجليزية

اللغة العربية

التربية الاسلامية

المواد على تلغرام

المزيد من الملفات بحسب الصف الحادي عشر المتقدم والمادة فيزياء في الفصل الثاني

مراجعة الدرس الثاني thermodynamics and state of Changes تغيرات الحالة والديناميكا الحرارية

1

مقرر الوحدات والدروس المطلوبة في الفصل الثاني منهج انسباير

2

دليل تصحيح أسئلة الامتحان النهائي القسم الورقي منهج بريدج الخطة 101-C

3

مراجعة وفق الهيكل الوزاري القسم الورقي

4

حل مراجعة وفق الهيكل الوزاري القسم الورقي

5

@physixspert

Teacher

model Answer	Student Number
	Student Name
	School
	Class
	Stream
physics	Subject

whats APP: 058 688 0360

Marker			
Signature	Name	20	Total

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Part 1 : Multiple choice questions (10 marks) (1 each)

Q1. The total energy of the molecule is called ?

- a. Heat b. Temperature
c. Thermal energy d. Thermal equilibrium

Q2. Which of the following statements about thermal equilibrium is false?

- a. When two objects are at equilibrium, they have the same temperature.
b. The total energy flow equal to zero.
c. the rate of energy flow between the two objects is equal.
d. Heat transfer continues after reaching thermal equilibrium state.

Q3. the boiling point of water in kelvin scale is?

- a. 100 k b. 212 k
c. 373 k d. -173 k

Q4. which of the following is true about converting 34 kelvin to degree Celsius ?

- a. -239 °C
b. 307 °C
c. 93.2 °C
d. 1.11 °C

$$TK = T^{\circ}C + 273$$

$$T^{\circ}C = TK - 273$$

$$= 34 - 273 = -239^{\circ}C$$

Q5. which of the following conversions is false?

- a. 0 °C = 273 k
b. 273 k = 32 °F
c. 316 k = 109.4 °F
d. 240 F = -33 °C

$$TF = (T^{\circ}C \times \frac{9}{5}) + 32$$

$$T^{\circ}C = (TF - 32) \times \frac{5}{9}$$

1. c
2. d
3. a
4. b
5. d

Q6. according to the specific heat of the following substances which substance will be heated up more quickly?
(aluminum =897 j/kg.k) (brass=376 j/kg.k) (silver=235 j/kg.k)
(zinc=388 j/kg.k)

lowest specific Heat will be heated more quickly.

- a. aluminum b. brass
c. silver d. zinc

Q7. How much heat is needed to warm 363 g of water in a baby bottle from 24°C to 38°C? (specific heat of water=4180)

- a. 21 kj b. 121 kj
c. 36 kj d. 820 kj

$$Q = mc \Delta T$$

$$= 0.363 \times 4180 \times (38 - 24)$$

$$= 21242.7 J \approx 21 \times 10^3 J$$

$$m = 0.363 Kg$$

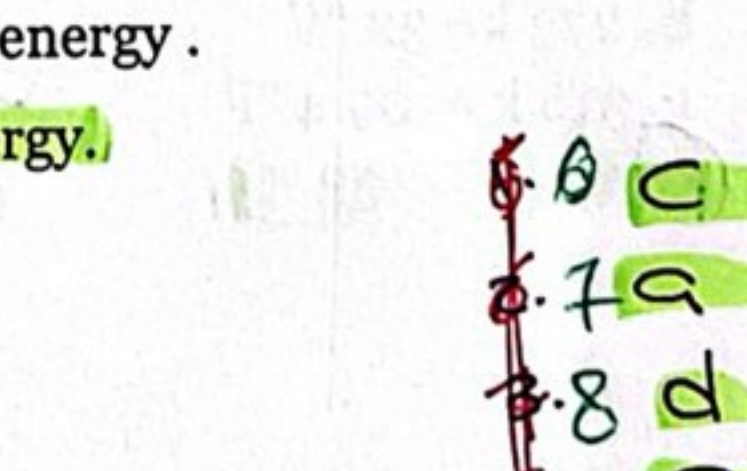
$$T_i = 24^{\circ}C$$

$$T_f = 38^{\circ}C$$

$$C = 4180 J/kg.k$$

Q8. which of the following is correct about two cubes of iron at the same temperature but with different masses?

- a. The larger cube has less thermal energy.
b. The smaller cube has more thermal energy.
c. The two cubes have the same thermal energy.
d. The larger cube has more thermal energy.



$$Q = mc \Delta T$$

$$Q \propto m$$

$$Q \propto T$$

$$Q \propto c$$

$$Q \propto \Delta T$$

$$Q \propto m \Delta T$$

$$Q \propto m T$$

$$Q \propto m c \Delta T$$

$$Q \propto m c T$$

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Q9. what will happen to the specific heat of water if the mass increased two times ?

- a. The specific heat increased two times .
b. The specific heat decreased to half.
c. The specific heat remains constant.
d. The specific heat increased four times.

Q10. which of the following is considered as a way of thermal energy transfer ?

- a. Conduction b. radiation
c. Convection d. all of the above.

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$$6. c$$

$$7. a$$

$$8. d$$

$$9. c$$

$$10. d$$

Part 2 : Written questions (10 marks)

Q1. (2.5 marks) $m_w = 0.1 kg$

A $1.50 \times 10^2 g$ piece of glass at a temperature of $70.0^{\circ}C$ is placed in a container with $1.00 \times 10^2 g$ of water initially at a temperature of $16.0^{\circ}C$.

What is the equilibrium temperature of the water? $C_g = 840 J/kg.k$

$$m_g = \frac{1.5 \times 10^2}{1000} = 0.15 kg$$

$$T_g = 70^{\circ}C$$

$$C_w = 4180 J/kg.k$$

$$C = 4180 J/kg.k$$

$$m_g C_g \Delta T_g = -m_w C_w \Delta T_w$$

$$0.15 \times 840 \times (T_f - 70) = -0.1 (4180) (T_f - 16)$$

$$T_f = 28^{\circ}C$$

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