

GRADE 12 PHYSICAL SCIENCES MARCH TEST

QUESTION 1

Various options are provided as possible answers to the following questions. Choose the correct answer and write **ONLY** the LETTER (A-D) next to the QUESTION NUMBER (1.1-1.7) on your folio paper. Example 1.8. D.

- 1.1 Which of the following pairs of compounds contains members of the same homologous series?
- A Ethanol and butane
 B Ethanol and propanoic acid
 C Ethanol and propanal
 D Ethanol and butanoic acid
- 1.2 In which of the following cases would the resultant force acting on an object be equal to 0N.



- A A constant number of different ions are released.
 B A new element is formed and the original quantities of the elements are conserved.
 C An ionic substance gains a positive charge from the reaction.
 D An ionic substance is oxidising substances.
- 1.3 Which of the statements below best describes Weightlessness?
- A An object is free of contact forces and is in free fall.
 B An object is moving in a circle at a constant speed and is in free fall.
 C An object is in a state of free fall and is in a state of weightlessness.
 D An object is in a state of free fall and is in a state of weightlessness.
- 1.4 The inertia of an object...
- A is measured by the mass of the object.
 B is the resistance to change in the object's motion.
 C is the resistance to change in the object's velocity.
 D is the resistance to change in the object's acceleration.

- 1.5 An astronaut has a weight E_E on Earth. What distance, in terms of the radius of the Earth (r), will the astronaut be if his weight is a 1/4 of his weight (E_E) on the surface of the Earth?
- A r
 B $2r$
 C $4r$
 D $16r$

- 1.6 A box is pushed forward with a force of 100N but does not move. A possible reason for this is that:
- A The box is too heavy.
 B The box is too light.
 C The box is too smooth.
 D The box is too rough.
- 1.7 A box is pushed forward with a force of 100N but does not move. A possible reason for this is that:
- A The box is too heavy.
 B The box is too light.
 C The box is too smooth.
 D The box is too rough.

[14]

QUESTION 2

Three organic compounds (A, B and C) with different functional groups are given below.

A: 2,3-dimethyl-2-one



C: $\text{CH}_3\text{CH}_2\text{CH}_2\text{CH}_2\text{OH}$

- 2.1 Write down the functional group of compound A and the name of the cation to form such a variety of organic compounds. (2)
- 2.2 Define the term functional group. (2)
- 2.3 Write down the:
 2.3.1 IUPAC name of compound B. (2)
 2.3.2 IUPAC name of compound C. (2)

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web if the installation marks have disappeared put a new installation mark on the timing belt before removing each part em 110 2uz fe engine mechanical engine unit b using the crankshaft damper bolt turn the crankshaft to align the timing marks of the crankshaft timing pulley and oil pump body em approx 45 timing mark turn

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cover cylinder head and cylinder block with a screwdriver notice be careful not to damage the contact surfaces of the timing chain cover cylinder block and cylinder head c remove the o ring from the lh cylinder

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web dec 9 2020 put the wrench on the crank bolt and turn it clockwise until the mark on the harmonic balancer crank pulley lines up with the tdc mark on the lower timing cover now look at the cam sprocket the dowel in the cam should be in the hole for number 1 on some older b2000 engines they might have an a b c all alignment should be on a

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web align the timing marks of the camshaft with the mark plates of the timing chain and install the timing chain hint align the timing marks with the mark plates while turning the hexagonal service portion of the camshaft using a wrench 2 install chain tensioner slipper a install the chain tensioner slipper 3 install chain tensioner

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web rotate the crankshaft pulley two complete turns clockwise and check the timing marks if the timing marks are correct tighten the lock bolt for the tensioner to 20 to 34 n m 200 to 350 kgfcm for fe to 37 to 52 n m 380 to 530 kgfcm for f2 engine check the movement on the tension side of the timing belt

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web fe engines use a timing assembly very similar to other ford engines with the aforementioned cam thrust plate an offset positioned dowel pin for locating and a single central cam bolt for retention the factory cam sprockets were often aluminum with molded nylon teeth for quieter operation

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web jul 22 2009 a set the timing mark to 0 on the timing chain cover by rotating the crankshaft clockwise b verify the timing marks on the camshaft timing gears are in general alignment with the timing marks of the camshaft bearing cap see chart note when the engine is correctly timed the timing marks will not perfectly align

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