SAMPEL PERCUMA

Trial STPM Fizik Semester 1 Kelantan 2023

Set penuh: Kertas Percubaan STPM

Sem 1 · Fizik

Sampel ini: 4 muka surat. Set penuh ada:

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- Semester 1: kertas percubaan (trial) negeri, subjek yang dipilih + skema
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Sampel bermula di muka surat sebelah

Name:…… I/C:……

PENGGAL 1

960/1 **STPM 2023**

JABATAN PENDIDIKAN NEGERI KELANTAN

SIJIL TINGGI PERSEKOLAHAN MALAYSIA

PHYSICS 1 (FIZIK 1)

MODUL 1

One and a half hours (Satu jam setengah)

Instructions to candidates:

DO NOT OPEN THIS QUESTIONS PAPER UNTIL YOU ARE TOLD TO DO SO.

There are **fifteen** *questions in Section A. For each questions, four choices of answers are given. Choose* **one** *correct answer and indicate it on the Multiple-choice Answer Sheet provided. Read the instructions on the Multiple-choice Answer Sheet very carefully. Answer* **all** *questions. Marks will not be deducted for wrong answers.*

Answer **all** *questions in Section B. Write your answers in the spaces provided.*

Answer any **two** *questions in Section C. All essential working should be shown. For numerical answers, unit should be quoted wherever appropriate. Begin each answer on a fresh sheet of paper and arrange your answers in numerical order.*

Tear off the front page of this question paper in your answer sheets of Section B, and tie both of them together with your answer sheets in Section C.

Values of constant are provided.

Answers may be written in either English or Bahasa Malaysia

For examiner's use (Untuk kegunaan pemeriksa)	
Section A (Bahagian A)	
Section B (Bahagian B)	
16	
17	
Section C (Bahagian C)	
Total (Jumlah)	

This question paper consists of 11 printed pages and 0 blank pages.
(Kertas soalan ini terdiri daripada 11 halaman bercetak dan 0 halaman kosong.)

Section A [15 marks]
Answer **all** questions in this section

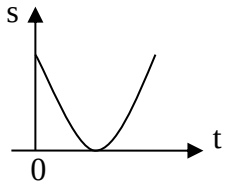
1. Which of the statement is not true about random errors?

A. The error is consistenly too high or too low by different amounts
B. The error is constantly too high or too low by the same amount each time
C. The error cannot be fully eliminated
D. The error cannot be reduced by eraging repeated measurements

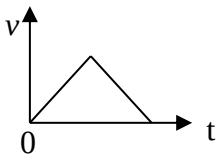
2. An object with a given velocity is projected vertically upwards. Neglecting air resistance, which one of the following statements about motion is correct?

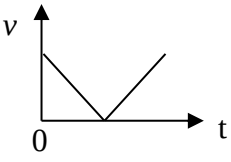
A. The kinetic energy of the object is maximum at the maximum height.
B. According to the principle of conservation of energy, the total energy of the object is constant along its motion.
C. According to the principle of conservation of energy, the momentum of the object is constant along its motion.
D. The potential energy of the object increases uniformly with time in its upwards motion.

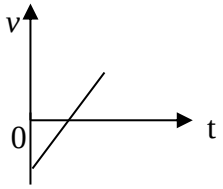
3. The graph of displacement s against t for a body is shown below.

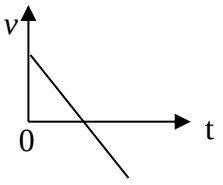


Which graph shows the variation of velocity of the body with time?

A


B


C


D


4. A lorry of mass m with effective power P climbs a hill of height h at initial velocity u. The lorry arrives at the peak of the hill at velocity v in time t. Which of the following is true of the motion?

A $Pt + \frac{1}{2} mu^2 = \frac{1}{2} mv^2 + mgh$

B $Pt + \frac{1}{2} mv^2 = \frac{1}{2} mu^2 + mgh$

C $Pt + mgh = \frac{1}{2} mu^2 - \frac{1}{2} mv^2$

D $Pt + mgh = \frac{1}{2} mv^2 - \frac{1}{2} mu^2$

5. Two bodies of mass m_1 and m_2 have the same kinetic energy. The ratio of the momentum of m_1 to the momentum m_2 is equal to

A $\frac{m_1}{m_2}$ **C** $\sqrt{\frac{m_1}{m_2}}$

B $\frac{m_2}{m_1}$ **D** $\sqrt{\frac{m_2}{m_1}}$

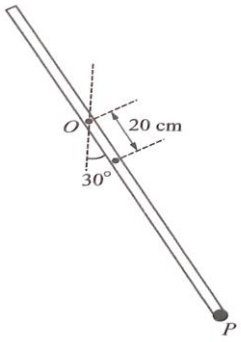
6. For a particle moving with constant speed in a horizontal circle,

A its energy is always changing but its linear momentum is constant.
B its energy and linear momentum are always constant.
C its energy is always constant but its linear momentum is always changing
D its energy and linear momentum is always changing.

7. A man-made satellite is shifted from a stable circular orbit to another lower orbit but equally stable orbit. Which of the following quantities increases ?

A Gravitational potential energy
B Orbital linear speed
C Kinetic Energy
D Centripetal Acceleration

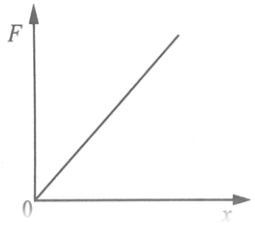
8 The diagram below shows a uniform rod of length 100 cm and mass 300 g which oscillates about the horizontal axis at a point O at a distance of 20 cm from the center of mass of the rod. A body P of mass 200 g is attached to one end of the rod.



What is the torque acting on the rod when the rod is inclined at an angle of 30˚ to the vertical ?

A 0.79 N m
B 0.98 N m
C 1.36 N m
D 1.70 N m

9. The graph below shows the variation of Force, F on the spring with extension x of the spring.



Which of the following graphs shows the variation of work W done with the extension x of the spring?

TAMAT SAMPEL

Suka sampel ini?

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