SAMPEL PERCUMA

# Trial STPM Sem 1 Fizik Pahang 2022

## Set penuh: Kertas Percubaan STPM

Sem 1 · Fizik

**Sampel ini: 4 muka surat. Set penuh ada:**

- 2 fail PDF
- Semester 1: kertas percubaan (trial) negeri, subjek yang dipilih + skema
- Blueprint 30 hari Semester 1 (setiap subjek)
- Semester 3: percubaan 2024, 10 subjek, banyak negeri, soalan + skema dalam satu fail

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Sampel bermula di muka surat sebelah

Name : ..... Form : .....

MODUL PENTAKSIRAN PDPC SEMESTER1 MODUL PENTAKSIRAN PDPC SEMESTER 1

**960/1** **STPM 2022**

**PHYSICS**

**PAPER 1**

**One and a half hours**

# MODUL PENTAKSIRAN PDPC
# SEMESTER 1
# NEGERI PAHANG

**Instructions to candidates:**

**DO NOT OPEN THIS BOOKLET UNTIL YOU ARE TOLD TO DO SO.**

*There are* **fifteen** *questions in Section A. For each question, four suggested answers are given. Choose* **one** *correct answer and indicate it on the multiple-choice answer sheet BELOW.*

*There are* **two** *questions in Section B. Answer* **BOTH** *questions. Write your answers in the spaces provided .*

*There are* **three** *questions in Section C. Answer any* **two** *questions* **only**. *All workings should be shown. For numerical answers, units should be quoted whenever appropriate.*

***MULTIPLE-CHOICE ANSWER SHEET***

**1** Ⓐ Ⓑ Ⓒ Ⓓ
**2** Ⓐ Ⓑ Ⓒ Ⓓ
**3** Ⓐ Ⓑ Ⓒ Ⓓ
**4** Ⓐ Ⓑ Ⓒ Ⓓ
**5** Ⓐ Ⓑ Ⓒ Ⓓ
**6** Ⓐ Ⓑ Ⓒ Ⓓ
**7** Ⓐ Ⓑ Ⓒ Ⓓ
**8** Ⓐ Ⓑ Ⓒ Ⓓ
**9** Ⓐ Ⓑ Ⓒ Ⓓ
**10** Ⓐ Ⓑ Ⓒ Ⓓ
**11** Ⓐ Ⓑ Ⓒ Ⓓ
**12** Ⓐ Ⓑ Ⓒ Ⓓ
**13** Ⓐ Ⓑ Ⓒ Ⓓ
**14** Ⓐ Ⓑ Ⓒ Ⓓ
**15** Ⓐ Ⓑ Ⓒ Ⓓ

For examiner's use

| | MARKS |
|---|---|
| **MULTIPLE -CHOICE** | |
| 16 | |
| 17 | |
| | |
| | |
| | |
| TOTAL | |

**– This question paper consists of 14 printed pages -**

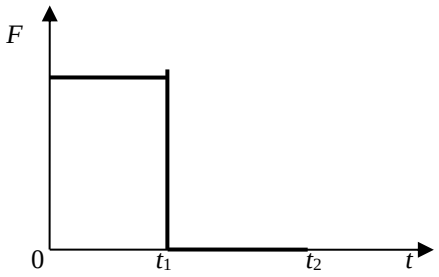
## Section A [15 *marks*]

*Answer **all** questions in this section*

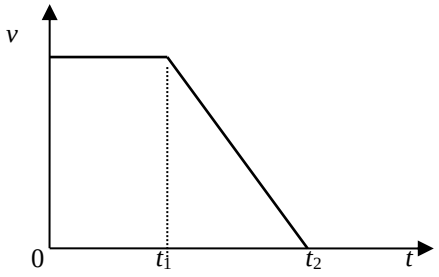
**1.** The dimensions for power is

**A** $MLT^{-1}$ **B** $MLT^{-2}$ **C** $ML^2T^{-2}$ **D** $ML^2T^{-3}$

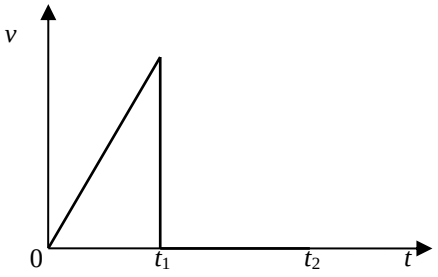
**2.** The diagram below shows how the resultant force $F$ acting on a body initially at rest changes with time $t$ .



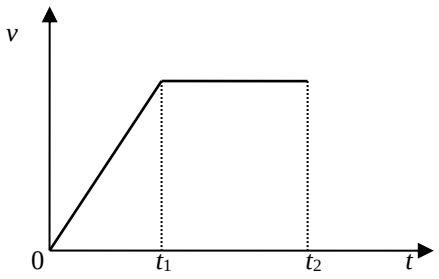

Which of the graphs below shows the change in velocity $v$ of the body with time $t$ ?



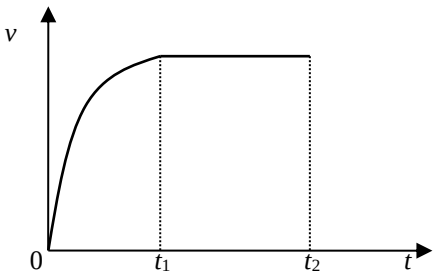

**A**




**B**




**C**

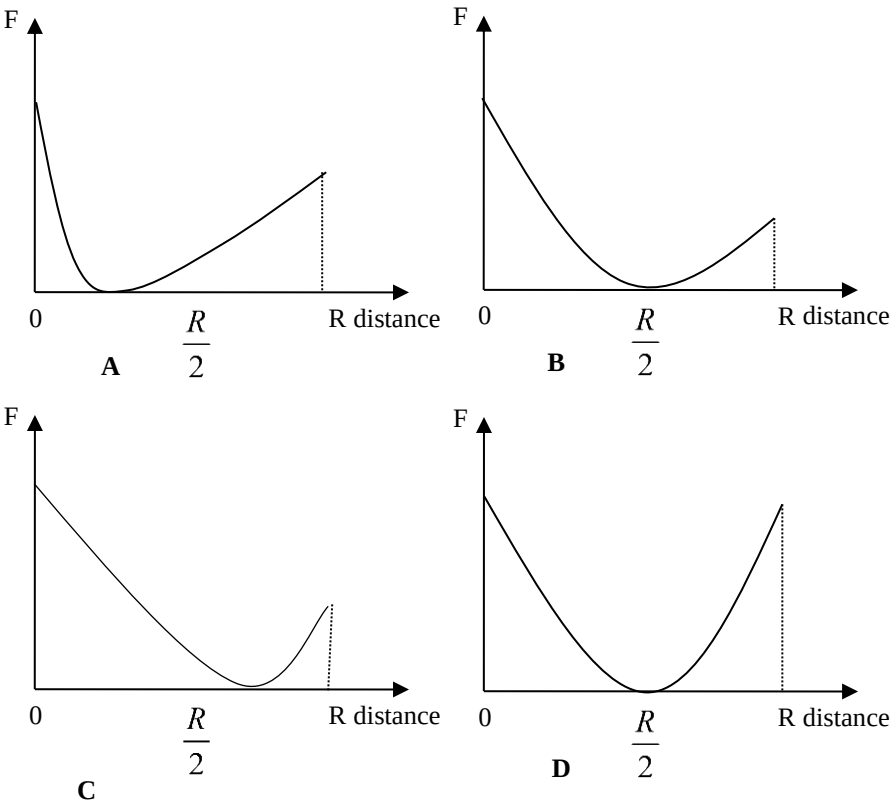



**D**

**3.** A ball is thrown horizontally with a speed of 12 m $s^{-1}$ from the top of a high building. The ball takes 5 seconds to reach the ground. What is the horizontal distance travelled by the ball ?

**A** 20 m **B** 32 m **C** 48 m **D** 60 m

**10.** A spaceship travels from the Earth's surface to the Moon's surface. If the distance between the Earth's surface and Moon's surface is *R*, which of the following graphs represents the magnitude of the gravitational force *F* on the spaceship from the Earth to the Moon ?




**11.** Which of the following best shows the stiffness of a solid?

**A** Young's modulus

**B** Elastic limit

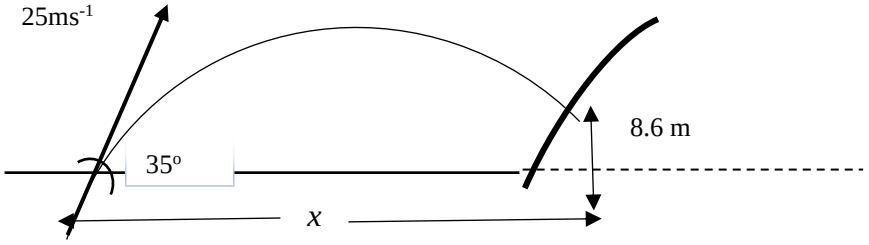
**C** Deformation point

**D** Stress strength

**Section B [15 marks]**

*Answer* **all** *questions in this section*

**16.** Ronaldo kick a ball and the ball moves with an initial velocity with initial velocity of 25 $ms^{-1}$ at the angle of 35$^o$ to the horizontal. The ball reaches maximum height before landing on a hillside as shown in the diagram below.




By neglecting air resistant, determine

a) the horizontal distance , *x* [ 3 marks ]

b) the time of flight of the ball [ 1 mark ]

c) the speed of the ball during the impact [ 4 marks ]

**17.** An object of mass 4.0 kg is whirled around in a vertical circle of radius 2.0 m at a speed of 5.0 m $s^{-1}$ .

(a) Explain what is meant by ***centripetal acceleration*** ? [ 1 mark ]

TAMAT SAMPEL

# Suka sampel ini?

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