KSSM DLP · UASA / SPM 2026

PREDICTED QUESTIONS DLP

FORM 4 · 5

Mathematics | Additional Mathematics | Physics | Chemistry | Biology

5 subjects (English): Mathematics, Additional Mathematics, Physics, Chemistry, Biology

Each form: 5 subjects × (12 multiple-choice + 3 structured questions)

Total: 120 multiple-choice + 30 structured questions

Full answer scheme (Skema Jawapan) with worked answers at the back of each form

Original practice questions written to the KSSM DLP syllabus in UASA / SPM style. These are not real exam papers or official predictions; questions are not guaranteed to appear.

Nama: _____ Kelas: _____

Kandungan

Cara guna: Cetak satu subjek pada satu masa. Jawab dalam masa yang ditetapkan tanpa melihat nota, kemudian semak dengan skema jawapan di belakang setiap tingkatan. Ulang soalan yang salah selepas 3 hari.

Form 4 3

Mathematics 3

Additional Mathematics 6

Physics 10

Chemistry 14

Biology 18

Skema Jawapan Form 4 22

Form 5 26

Mathematics 26

Additional Mathematics 29

Physics 32

Chemistry 36

Biology 40

Skema Jawapan Form 5 44

7. Which point satisfies both inequalities $y > x$ and $y < 4$?

A (3, 2) **B** (2, 5)
C (1, 3) **D** (4, 4)

8. A distance-time graph shows a car travelling 120 km in 1.5 hours at constant speed. Find the speed of the car.

A 60 km/h **B** 75 km/h
C 90 km/h **D** 80 km/h

9. A particle accelerates uniformly from rest to 20 m/s in 5 s. Find the distance travelled in the 5 s.

A 100 m **B** 50 m
C 25 m **D** 4 m

10. Find the standard deviation of the data 2, 4, 4, 4, 5, 5, 7, 9.

A 2 **B** 4
C 5 **D** 32

11. A bag contains 4 red balls and 6 blue balls. Two balls are taken at random, one after another, without replacement. Find the probability that both balls are red.

A 4/25 **B** 2/15
C 2/5 **D** 1/15

12. RM2000 is saved at 5% per annum compounded annually. Find the total amount after 2 years.

A RM2200.00 **B** RM2100.00
C RM2210.25 **D** RM2205.00

Bahagian B — Soalan Berstruktur. Jawab semua soalan di ruang yang disediakan.

1. Points A(2, 3) and B(8, 7) are given.
(a) Find the midpoint of AB. [1 mark]
(b) Find the gradient of AB. [1 mark]
(c) Find the equation of the perpendicular bisector of AB. [3 marks]
(d) Point C lies on the perpendicular bisector and its x-coordinate is 1. Find the coordinates of C and show that CA = CB. [2 marks] [7 markah]

2. The table shows the price indices in 2026 based on 2024 and the weightages of four ingredients used to make a cake.
Flour: index 120, weightage 4
Sugar: index 110, weightage 3
Cooking oil: index 130, weightage 2
Eggs: index 105, weightage 1
(a) The price of a packet of sugar in 2024 was RM2.80. Find its price in 2026. [2 marks]
(b) Calculate the composite index for the cost of making the cake in 2026 based on 2024. [3 marks]
(c) The cost of making a batch of cakes in 2024 was RM400. Find the corresponding cost in 2026. [2 marks] [7 markah]

3. An object is placed 30 cm in front of a convex lens of focal length 10 cm.
(a) Calculate the image distance. [3 marks]
(b) Calculate the linear magnification. [2 marks]
(c) State two characteristics of the image formed. [2 marks] [7 markah]

7. What is the pH of 0.01 mol dm^-3 hydrochloric acid?

A 1 **B** 2
C 12 **D** 0.01

8. Which gas is released when zinc reacts with dilute hydrochloric acid?

A Oxygen **B** Chlorine
C Carbon dioxide **D** Hydrogen

9. Which salt is insoluble in water?

A Sodium chloride **B** Potassium nitrate
C Ammonium chloride **D** Barium sulphate

10. Why does the rate of reaction increase when the temperature is raised?

A The activation energy increases **B** The size of the reactant particles decreases
C Particles gain kinetic energy, so the frequency of effective collisions increases **D** More product is formed at the end

11. Bronze is an alloy made mainly of

A copper and tin **B** copper and zinc
C iron and carbon **D** aluminium and magnesium

12. Which catalyst is used in the Haber process to make ammonia?

A Vanadium(V) oxide **B** Iron
C Nickel **D** Platinum

Biology — Predicted Form 4

Nama: _____ Tarikh: _____ Markah: ____ / 33

Bahagian A — Aneka Pilihan. Answer all questions. Section A: choose the best answer (A, B, C or D). Section B: answer the structured questions in the space provided.

1. Which organelle is the site of aerobic respiration?

A Ribosome
B Mitochondrion
C Golgi apparatus
D Nucleus

2. Which structure is found in a plant cell but not in an animal cell?

A Cell wall
B Plasma membrane
C Ribosome
D Mitochondrion

3. A red blood cell is placed in distilled water. What happens to the cell?

A Crenation
B Plasmolysis
C Haemolysis
D No change

4. Glucose moves into a cell through a carrier protein, down its concentration gradient, without using energy. This process is

A simple diffusion
B osmosis
C active transport
D facilitated diffusion

5. What are the basic units (monomers) of proteins?

A Glucose
B Fatty acids
C Amino acids
D Nucleotides

6. Why does an enzyme stop working at very high temperatures?

A The substrate is used up
B The shape of its active site changes
C The enzyme turns into substrate
D The reaction rate doubles

Skema Jawapan — Form 4

Bahagian A — Aneka Pilihan

Mathematics	1 **B**	2 **A**	3 **D**	4 **C**	5 **A**	6 **C**
	7 **C**	8 **D**	9 **B**	10 **A**	11 **B**	12 **D**
Additional Mathematics	1 **B**	2 **A**	3 **C**	4 **D**	5 **A**	6 **B**
	7 **C**	8 **B**	9 **D**	10 **A**	11 **C**	12 **D**
Physics	1 **C**	2 **A**	3 **C**	4 **B**	5 **D**	6 **B**
	7 **A**	8 **D**	9 **C**	10 **B**	11 **A**	12 **D**
Chemistry	1 **C**	2 **A**	3 **C**	4 **B**	5 **D**	6 **A**
	7 **B**	8 **D**	9 **D**	10 **C**	11 **A**	12 **B**
Biology	1 **B**	2 **A**	3 **C**	4 **D**	5 **C**	6 **B**
	7 **A**	8 **D**	9 **B**	10 **D**	11 **A**	12 **C**

Bahagian B — Soalan Berstruktur

Mathematics

1. (a) $x(x + 5) = 84$
$x^2 + 5x - 84 = 0$
(b) $(x + 12)(x - 7) = 0$
$x = -12$ or $x = 7$
Width cannot be negative, so $x = 7$.
(c) Length $= 7 + 5 = 12$ m, width $= 7$ m
Perimeter $= 2(12 + 7) = 38$ m

2. (a) Sum $= 45 + 50 + 52 + 48 + 55 + 50 = 300$
Mean $= 300 \div 6 = 50$ kg
(b) Deviations from mean: $-5, 0, 2, -2, 5, 0$
Squares: $25, 0, 4, 4, 25, 0 \rightarrow$ sum $= 58$
Variance $= 58 \div 6 = 9.67$ kg^2
(c) Standard deviation $= \sqrt{9.667} = 3.11$ kg
(d) New mean $= 50 + 2 = 52$ kg
Standard deviation is unchanged $= 3.11$ kg (adding the same value to every data does not change the spread)

3. (a) $n(S \cup M) = 40 - 6 = 34$
$n(S \cap M) = n(S) + n(M) - n(S \cup M) = 25 + 18 - 34 = 9$
(b) Science only $= 25 - 9 = 16$
(c) Mathematics only $= 18 - 9 = 9$
Exactly one subject $= 16 + 9 = 25$

Suka sampel ini?

Nota SPM Sains & Matematik

Set DLP English (5 subjek + bonus)

- Nota Tingkatan 4 dan 5 untuk subjek yang dipilih
- Fizik: modul PhysiXplosion T4 + Magnatron T5 dengan skema jawapan
- Set DLP: nota infografik Biology, Chemistry, Physics, Maths, Add Maths + 150 soalan ramalan DLP

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