DOST Scholarship Reviewer 2026 with Answers

40 original practice questions: Math, Science, English, Abstract Reasoning | dostscholarship.com

Mock test: set a 45-minute timer, answer all items in one sitting with no calculator, then check the answer key at the end.

Mathematics

1. If 3x - 7 = 2x + 5, what is x?
A. 2 B. 8 C. 12 D. -12

2. What is the slope of the line through (2, 3) and (6, 11)?
A. 1/2 B. 2 C. 4 D. 8

3. A PHP 800 shirt is marked down 25%, then another 10% off the new price. What is the final price?
A. PHP 520 B. PHP 540 C. PHP 560 D. PHP 600

4. What are the roots of $x^2 - 5x + 6 = 0$?
A. 1 and 6 B. -2 and -3 C. 2 and 3 D. -1 and 6

5. A circle has a radius of 7 cm. Using pi = 22/7, what is its area?
A. 44 cm^2 B. 49 cm^2 C. 144 cm^2 D. 154 cm^2

6. What is log2 32?
A. 4 B. 5 C. 6 D. 16

7. Two fair coins are tossed. What is the probability of getting two heads?
A. 1/2 B. 1/3 C. 1/4 D. 3/4

8. What is the sum of the interior angles of a hexagon?
A. 540° B. 720° C. 900° D. 1080°

9. What is the next term: 2, 6, 18, 54, …?
A. 108 B. 148 C. 162 D. 216

10. If $f(x) = 2x^2 - 3$, what is f(-2)?
A. -11 B. 5 C. 11 D. -5

Science

1. A car starts from rest and accelerates at 3 m/s^2 for 4 seconds. What is its final speed?
A. 7 m/s B. 12 m/s C. 0.75 m/s D. 24 m/s

2. A 12-volt battery is connected to a 4-ohm resistor. What current flows?
A. 3 A B. 8 A C. 16 A D. 48 A

3. A swimmer pushes the wall backward and moves forward. Which law explains this?
A. Newton's first law B. Newton's second law C. Newton's third law D. Law of gravitation

4. At constant temperature, the pressure on a gas is doubled. What happens to its volume?
A. It doubles B. It is halved C. It stays the same D. It becomes four times larger

5. How many moles are in 36 grams of water (H2O)?
A. 1 B. 2 C. 3 D. 18

6. What type of bond holds sodium chloride (NaCl) together?
A. Covalent B. Metallic C. Hydrogen D. Ionic

7. What is the pH of pure water at 25 °C?
A. 0 B. 5 C. 7 D. 14

8. Which organelle produces most of the cell's ATP?
A. Ribosome B. Mitochondrion C. Golgi body D. Nucleus

9. Two parents with genotype Aa have a child. What is the chance the child shows the recessive trait (aa)?
A. 0 B. 1/4 C. 1/2 D. 3/4

10. Which layer of the Earth is liquid?
A. Crust B. Mantle C. Outer core D. Inner core

English

1. Choose the synonym of METICULOUS.
A. Careless B. Careful C. Quick D. Noisy

2. Choose the antonym of SCARCE.
A. Rare B. Limited C. Abundant D. Small

3. Neither the students nor the teacher ___ in the room.
A. are B. were C. is D. have been

4. Find the error: "She (A) don't know (B) where the (C) library is (D) located."

5. Complete the analogy. DOCTOR : HOSPITAL:: TEACHER:
A. Student B. Book C. School D. Lesson

6. The meeting will start ___ 9:00 a.m.
A. in B. on C. at D. by

7. What does "break the ice" mean?
A. To cause a problem B. To start a conversation in an awkward situation C. To finish a task D. To feel cold

Reading passage (items 8-10): Mangrove forests grow along tropical coastlines where land meets the sea. Their tangled roots slow down waves, which protects coastal towns from storm surges. The roots also shelter young fish, making mangroves important for local fishing. Despite this, many mangroves have been cleared for fishponds and housing.

8. What is the main idea of the passage?
A. Fishponds are profitable B. Mangroves are valuable but threatened C. Storms are getting stronger D. Fish live only in mangroves

9. According to the passage, how do mangroves protect towns?
A. By blocking wind B. By slowing waves C. By raising land D. By absorbing rain

10. Which can be inferred from the passage?
A. Losing mangroves may hurt fishing communities B. Mangroves grow in cold regions C. Housing protects coastlines D. Mangroves need no water

Abstract Reasoning

1. What comes next: 1, 4, 9, 16, 25, …?
A. 30 B. 36 C. 49 D. 32

2. What comes next: 2, 3, 5, 9, 17, …?
A. 25 B. 31 C. 33 D. 34

3. What comes next: A, C, F, J, O, …?
A. S B. T C. U D. V

4. If CAT is written as DBU, how is DOG written?
A. EPH B. CNF C. EPG D. FQI

5. Which does not belong: triangle, square, pentagon, circle?
A. Triangle B. Square C. Pentagon D. Circle

6. An arrow points up, then right, then down. Where does it point next?
A. Up B. Left C. Right D. Down

7. Which comes next: 3, 6, 12, 24, …?
A. 30 B. 36 C. 48 D. 60

8. All roses are flowers. Some flowers fade quickly. Which conclusion is certain?
A. All roses fade quickly B. Some roses fade quickly C. No roses fade quickly. D. None of these follows for certain.

9. What comes next: Z, X, V, T, …?
A. S B. R C. Q D. P

10. A square has a dot in the top-left corner. The dot moves one corner clockwise each step. Where is it after 3 steps?
A. Top-right B. Bottom-right C. Bottom-left D. Top-left

Answer Key with Explanations

Mathematics

1. C - Subtract 2x from both sides, then add 7: x = 12.
2. B - Slope = (11 - 3) ÷ (6 - 2) = 8 ÷ 4 = 2.
3. B - PHP 800 × 0.75 = PHP 600, then PHP 600 × 0.90 = PHP 540. Discounts in a row do not simply add up to 35%.
4. C - Factor: (x - 2)(x - 3) = 0.
5. D - Area = pir^2 = 22/7 × 49 = 154 cm^2.
6. B - 2^5 = 32.
7. C - The outcomes are HH, HT, TH, TT; only one of the four is HH.
8. B - (n - 2) × 180° = 4 × 180° = 720°.
9. C - Each term is multiplied by 3.
10. B - 2(4) - 3 = 5. Squaring a negative gives a positive.

Science

1. B - v = u + at = 0 + 3 × 4 = 12 m/s.
2. A - Ohm's law: I = V ÷ R = 12 ÷ 4 = 3 A.
3. C - Every action has an equal and opposite reaction.
4. B - Boyle's law: pressure and volume are inversely proportional.
5. B - The molar mass of water is 18 g/mol, so 36 ÷ 18 = 2 moles.
6. D - Sodium gives an electron to chlorine, forming oppositely charged ions.
7. C - Pure water is neutral.
8. B - Cellular respiration takes place mainly in the mitochondria.
9. B - A Punnett square gives AA, Aa, Aa, aa; one of the four is aa.
10. C - The outer core is molten iron and nickel; the inner core is solid due to pressure.

English

1. B - Meticulous means paying close attention to every detail.
2. C - Scarce means in short supply; abundant means plentiful.
3. C - With neither/nor, the verb agrees with the nearer subject, "teacher," which is singular.
4. A - "She" is singular, so it should be "doesn't know."
5. C - The pairs show a worker and the place where they work.
6. C - Use "at" for exact clock times.
7. B - It means easing tension when people first meet.
8. B - The passage lists their benefits, then says they are being cleared.
9. B - The roots slow down waves.
10. A - Mangroves shelter young fish, so their loss affects local fishing.

Abstract Reasoning

1. B - These are perfect squares: 1^2, 2^2, 3^2, 4^2, 5^2, so next is 6^2 = 36.
2. C - The differences double: +1, +2, +4, +8, so the next is +16.
3. C - The gaps grow by one: +2, +3, +4, +5, then +6. O (15) + 6 = U (21).
4. A - Each letter moves one step forward in the alphabet.
5. D - The others are polygons with straight sides.

6. B - It rotates 90° clockwise each step.

7. C - Each term doubles.

8. D - The flowers that fade quickly may not include any roses.

9. B - The letters move two steps backward.

10. C - Top-left -> top-right -> bottom-right -> bottom-left.

Score guide (out of 40)

34-40: Strong. Move on to full-length, harder practice sets.
26-33: Good base. Focus on your weakest subject.
18-25: Review core lessons in Math and Science first.
Below 18: Start with Grade 9-11 basics before more mock tests.