



ACDAEMIA

Sample Question

Class: X

Time: 1 hour

Full Marks: 60

Name: _____ Mobile: _____ Date: _____

English (20 marks)

- 1. Write a short Paragraph on any one of the topics (100 words) 5 marks**
 - a) Pollution
 - b) Your favorite person
 - c) A picnic you enjoyed

- 2. Change the sentences as directed 5 marks**
 - a) Man is mortal (negative)
 - b) He took the book and ran away (Simple)
 - c) Completing the work, we went home (Compound)
 - d) Pushing me, she went out (Complex)
 - e) We eat to live (Complex)

- 3. Write the correct form of verb from the brocket. 5 marks**
 - a) She (leave) her school long ago.
 - b) I have (break) my fast.
 - c) My brother (try) to help me in my studies.
 - d) When he (light) the lamp, it was bright.
 - e) I saw the girl (dance) in the function.

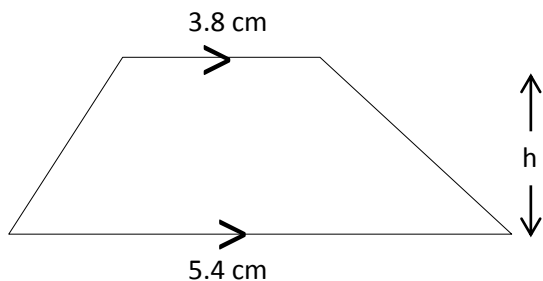
- 4. Make sentences with these phrases: 5 marks**
 - a) Year in, year out
 - b) black sheep
 - c) a rough diamond
 - d) turn over a new leaf
 - e) rain cats and dogs

Mathematics-(20 marks)

1. The ratio of ages of father and son is 4:7. If the total age is 55, find the son's age. 2

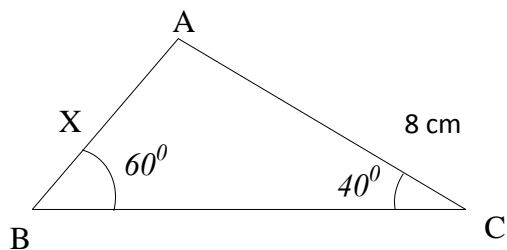
- a) 5 b) 35 c) 40 d) 55

2. The area of the trapezium is 21.62 cm^2 . Find its height. 2



- a) 4.2 b) 4.7 c) 4.9 d) 5.8

3. Find 'X' 2



- a) 5.9378 b) 5.64 c) 5.92 d) 5.97

4. Solve the simultaneous equation: 2

$$\begin{aligned}x &= y + 2 \\x + 4y &= 7\end{aligned}$$

- a) $y=1, x=3$ b) $y=2, x=5$ c) $y=10, x=4$ d) $y=20, x=50$

5. Factorize properly: 2

$$\frac{18x^2 - 8y^2}{2(3x - 2y)}$$

- a) $3x-2y$ b) $3x+2y$ c) $2x+3y$ d) $2x-3y$

6. $3(x-5) = 7(x+4)-7$ 2

- a) $x=9$ b) $x=-9$ c) $x=8$ d) $x=-8$

7. Tk 2400 × 15% 2

a) 460 b) 380 c) 360 d) 280

8. $5abc \times 2ab^3c^3 \times 3ac$ 2

a) $30 a^3b^4c^5$ b) $30 a^5b^6c^8$ c) $30 a^3b^3c^5$ d) $30 a^3b^3c^8$

9. Sum of interior angles of any polygon is 2

a) $2n+4$ b) $2n-4$ c) $(2n-4) 90^0$ d) $(2n + 4) 90^0$

10. No. of sides = $\frac{?}{\text{each exterior angle}}$ 2

a) 180^0 b) 280^0 c) 360^0 d) 460^0

General Knowledge: (20 marks)

General Quiz

1. Albert Einstein was born in

Ans. _____

2. Who is the Chief justice of Bangladesh at present? -

Ans. _____

3. The major export partner country of Bangladesh is —

Ans. _____

4. The Chittagong Stock Exchange was established in —

Ans. _____

5. Taka 10 polymer note was first introduced in Bangladesh-

Ans. _____

6. The largest tribe in Bangladesh is —

Ans. _____

7. SWIFT is —

Ans. _____

8. Mother Teresa was born in —

Ans. _____

9. The largest trading block in the world is —

Ans. _____

10. BIA stand for —

Ans. _____

Science Quiz

1 Which prefix is often used with scientific terms to indicate that something is the same, equal or constant?

Ans.

2. The study of phenomena at very low temperatures is called

Ans.

3. The branch of medical science which is concerned with the study of disease as it affects a community of people is called

Ans.

4. Superconductivity is a material property associated with

Ans.

5. Cystitis is the infection of which of the following?

Ans.

6. Which of the following is primarily composed of calcium carbonate?

Ans.

7. Titan is the largest natural satellite of planet

Ans.

8. Water flows through a horizontal pipe at a constant volumetric rate. At a location where the cross sectional area decreases, the velocity of the fluid

Ans.

9. A cyclone is an engineering device that is used to

Ans.

10. A gas used as a disinfectant in drinking water is

Ans.