



ACADEMIA  
Sample Question

Class: IX

Time: I hour

Full Marks: 60

Name: \_\_\_\_\_ Mobile: \_\_\_\_\_ Date: \_\_\_\_\_

**English-20 Marks**

1. Form opposite by adding prefixes in, il, un, dis, im, or ir. (3 marks)
- (a) conscious \_\_\_\_\_ (d) surmountable \_\_\_\_\_  
(b) reversible \_\_\_\_\_ (e) legitimate \_\_\_\_\_  
(c) moral \_\_\_\_\_ (f) courteous \_\_\_\_\_
2. Choose the answer and underline which word best explains the meaning of the word in bold type: (3 marks)
- (a) Mr. Blank dislikes motorist, so he may be **biased** witness whose evidence is not reliable,  
(i) reluctant (ii) prejudiced (iii) unpleasant (iv) dishonest.
- (b) Mr. Green is a **persistent** critic of the electrical company  
(i) sarcastic (ii) convincing (iii) continual (iv) unfair.
- (c) When Mrs. Brown heard that she had won the first prize in the lottery, the news was almost too much for her. She sat down and stared at the floor **oblivious** of the other people in room,  
(i) nervous (ii) not trustful (iii) regardless (iv) Overcome by excitement.
3. Change the words in italics into its descriptive form in the blanks spaces provided. (2 marks)
- (a) a catastrophe flood ( ) (c) torrent rain ( )  
(b) an ecstasy shout ( ) (d) a tumult reception ( )
4. Using the clues, insert the appropriate adjective into each of the following sentences: (2 marks)
- (a) The disease was (spreadable by contact)  
(b) The land was (fit for ploughing).  
(c) These plants are (fit to be eaten)  
(d) They boy was given (of the body) punishment.  
(e) The diamond is (the only one of its kind).  
(f) After the flood, may people were (without a dwelling)
5. Provide one word for the following: (2 marks)
- (a) a loss of loved one through death. \_\_\_\_\_  
(b) a person who spends money recklessly \_\_\_\_\_  
(c) noble-mindedness and generosity \_\_\_\_\_  
(d) a person who wants peace at any price \_\_\_\_\_

6. Provide meaningful sentence with the following: (4 marks)

Excruciating \_\_\_\_\_

Delirious \_\_\_\_\_

Preliminary \_\_\_\_\_

Adequate \_\_\_\_\_

7. Correctly change the word forms in brackets, against each the following sentences.. (4 marks)

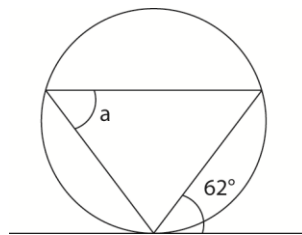
- (a) It seemed apparent that the Board would have to \_\_\_\_\_ (acquisition) more qualified referees.
- (b) Diana's \_\_\_\_\_ (persuading) skills brought victory to the debating team.
- (c) The accused was \_\_\_\_\_ (emphasis) that he had not committed any crime.
- (d) The local council was concerned to mention the \_\_\_\_\_ (accessible) of the small public reserve.
- (e) The selection committee had first of all to \_\_\_\_\_ (specifically) the duties attached to the job.
- (f) Close statistical \_\_\_\_\_ (analysed) revealed that someone had made serious error.

### Mathetics-20

1. Factorize  $X^2-121$ :

- i)  $(x+11)(x-11)$       ii)  $(x+121)(x-121)$

2. Find the angle marked



- i)  $62^\circ$     ii)  $118^\circ$     iii)  $242^\circ$     iv)  $422^\circ$

3. The sum of exterior angle and interior angle of any figure is:

- i)  $90^\circ$     ii)  $118^\circ$     iii)  $360^\circ$     iv)  $420^\circ$

4. The number of sides of a regular Octagon is:

- i) 8    ii) 9    iii) 10    iv) 12

5. Find the value of  $2^0$  is:

- i) 2    ii) 3    iii) 4    iv) 1

6. Find the gradients of the lines parallel to AB when A is (-2,-1), B is (4, 2)

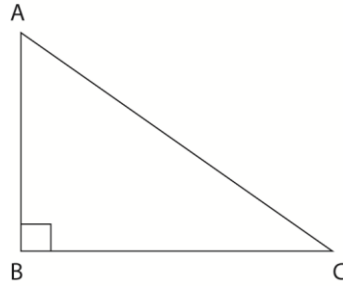
i)  $\frac{1}{2}$

ii)  $\frac{1}{8}$

iii) 2

iv) 6

7. ABC is a Triangle in which angle B is right angle, AB=3cm, BC = 4cm. Find AC



- i) 10 cm      ii) 5cm      iii) 8cm      iv) 9cm

8. Which of the following condition is suitable for similar Triangle

- i) Three angles are equal      ii) Three sides are equal      iii) Two sides are equal

9. Make x the subject of the equation:  $px/q=r$

i)  $x = \frac{p \times q}{v}$       ii)  $x = \frac{qr}{p}$       iii)  $x = \frac{p \times r}{q}$

10. The sum of the interior angle of a polygon is:

- i)  $(2n-2)90^\circ$       ii)  $(2n-4)90^\circ$       iii)  $(3n-2)40^\circ$

11. The radius of a circle is 7cm. Find the circumference of the circle.

- i) 7.cm      ii) 49 cm      iii) 44 cm

12. Solve x for the following equation  $(3 + x)^2 = 169$

- i)  $\pm 14$       ii)  $\pm 10$       iii) 25

13. Which one is in the standard form of correct to 3 significant figures of 0.012345.

- i)  $12.3 \times 10^{-2}$       ii)  $1.23 \times 10^{-2}$       iii)  $12.3 \times 10^{-3}$

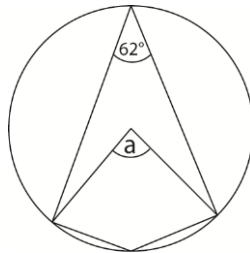
14. Convert  $50 \text{ km}^2$  into  $\text{m}^2$

- i)  $500 \text{ m}^2$       ii)  $5000 \text{ m}^2$       iii)  $50000 \text{ m}^2$

15. Make a the subject of the formula  $s = \frac{a(1-r^n)}{1-r}$

i)  $a = \frac{s(1-r)}{1-r^n}$       ii)  $a = \frac{1-r^n}{s(1-r)}$       iii)  $a = \frac{sr}{1-r^n}$

16. Find the size of the angle marked



- i)  $124^\circ$       ii)  $62^\circ$       iii)  $31^\circ$

17. Simplify  $(x + 5)(x - 5)$ :

- i)  $x^2 - 5^2$       ii)  $x^2 + 5^2$       iii)  $x^2 \times 5^2$

18. Factorize:  $x^2 + 8x - 48$

- i)  $(x - 12)(x - 4)$       ii)  $(x + 12)(x - 4)$       iii)  $(x + 12)(x + 4)$       iv)  $(x \div 12)(x - 4)$

19. Solve for x:  $x^2 - 125x = 0$   
 i) *Either  $x = 0$  or  $x = 125$*       ii) *Either  $x = -125$  or  $x = 1$*       iii)  $x^2 \times 5^2$
20. Expand:  $-(x - 4)^2$   
 i)  $x^2 + 8x + 16$       ii)  $x^2 - 8x + 16$

**Class: IX**  
**General Quiz: 10**

1. What is a "Tsunami"?  
 Ans. \_\_\_\_\_
2. What name is given to the programs run by a computer, as opposed to the hardware?  
 Ans. \_\_\_\_\_
3. The name of which animal is an Aboriginal term meaning 'no water'?  
 Ans. \_\_\_\_\_
4. Who wrote the book "David Copperfield"?  
 Ans. \_\_\_\_\_
5. 'Indices' is the plural of which word?  
 Ans. \_\_\_\_\_
6. For which film did Steven Spielberg win an Oscar for Best Director at the 1999 Academy Awards?  
 Ans. \_\_\_\_\_
7. Which color is produced by adding together yellow and cyan?  
 Ans. \_\_\_\_\_
8. What was invented by Sir Frank Whittle in 1930?  
 Ans. \_\_\_\_\_
9. On which area of the moon did Armstrong, Aldrin and Collins make their landing on 20 July 1969?  
 Ans. \_\_\_\_\_
10. Which actor played James Bond in 'GoldenEye'?  
 Ans. \_\_\_\_\_

**Science Quiz: 10**

1. As you go down into a well, your weight  
 Ans. \_\_\_\_\_
2. To what familiar fruit is the plantain similar?  
 Ans. \_\_\_\_\_
3. How many time zones are there on Earth?  
 Ans. \_\_\_\_\_
4. Which sea is the saltiest natural lake and is also at the lowest elevation on the face of the earth?  
 Ans. \_\_\_\_\_
5. What weather phenomenon causes more deaths in the U.S. annually than any other except lightning?  
 Ans. \_\_\_\_\_
6. What invention in about 1450 A.D. revolutionized communication and the world?  
 Ans. \_\_\_\_\_
7. What mammal lays eggs?  
 Ans. \_\_\_\_\_
8. What mammal is known as "cow of the sea"?  
 Ans. \_\_\_\_\_
9. Who invented "pasteurization"?  
 Ans. \_\_\_\_\_
10. How many men have walked on the moon?  
 Ans. \_\_\_\_\_