



# **SAMPLE PAPER AD AIR TRAFFIC CONTROL**

**ENGLISH**

**Complete the sentences by choosing the most appropriate option, from the given lettered choices (A to D) below each.**

1. Whenever the weather is nice, I \_\_\_\_\_ to work.

- A. walking
- B. walk
- C. to walking
- D. walked

2. Tomorrow we \_\_\_\_\_ submit the assignment.

- A. will
- B. has
- C. did
- D. are

**Choose the lettered word or phrase that is most nearly opposite in meaning to the word in capital letters.**

3. TRANSIENT:

- A. temporary
- B. shining
- C. dull
- D. permanent

**Choose the word most similar in meaning to the capitalized ones.**

4. EXCITE:

- A. punish
- B. improve
- C. delight
- D. explain

**Questions 5-8 are based on the following passage.**

Although the schooling of fish is a familiar form of animal social behavior, how the school is formed and maintained is only beginning to be understood in detail. It had been thought that each fish maintains its position chiefly by means of vision. Our work has shown that, as each fish maintains its position, the lateral line, an organ sensitive to transitory changes in water displacement, is as important as vision. In each species a fish has a "preferred" distance and angle from its nearest neighbor. The ideal separation and bearing, however, are not maintained rigidly. The result is a probabilistic arrangement that appears like a random aggregation. The tendency of the fish to remain at the preferred distance and angle, however, serves to maintain the structure. Each fish, having established its position, uses its eyes and its lateral lines simultaneously to measure the speed of all the other fish in the school. It then adjusts its own speed to match a weighted average that emphasizes the contribution of nearby fish.

5. According to the passage, the structure of a fish school is dependent upon which of the following?
- A. rigidly formed random aggregations
  - B. the tendency of each fish to remain at a preferred distance from neighboring fish
  - C. measurements of a weighted average by individual fish
  - D. both B & C
6. The word "its" in the passage refers to the:
- A. school of fish
  - B. fish
  - C. organs
  - D. structure
7. The author of the passage believes that the structure of fish schools is maintained through:
- A. vision only
  - B. lateral lines only
  - C. the eyes and lateral lines simultaneously
  - D. an organ not yet discovered
8. The passage suggests that, after establishing its position in the school formation, an individual fish will subsequently:
- A. maintain its preferred position primarily by visual and auditory means
  - B. make continuous sensory readjustments to its position within the school
  - C. make unexpected shifts in position only if threatened by external danger
  - D. surrender its ability to make quick, instinctive judgments

## PHYSICS

9. If a body moves with a constant speed in a circle:
- A. no work is done on it
  - B. no force acts on it
  - C. no acceleration is produced in it
  - D. its velocity remains constant
10. A boy on a 20 m high cliff drops a stone. One second later, he throws down another stone. Both the stones hit the ground simultaneously. Find the initial velocity of the second stone.  
( $g = 10\text{m/s}^2$ )
- A. 5 m/s
  - B. 10 m/s
  - C. 15 m/s
  - D. 30 m/s
11. Which pair includes a scalar quantity and a vector quantity, respectively?
- A. Kinetic energy and momentum
  - B. Potential energy and work
  - C. Velocity and acceleration
  - D. Weight and force
12. A freely falling object is:
- A. Newton's first law of motion
  - B. Newton's second law of motion
  - C. Archimedes' principle
  - D. Bernoulli's principle

**MATHEMATICS**

13. 200% of 800 equals:

- A. 4
- B. 16
- C. 200
- D. 800
- E. 1600

14.  $(x + 4)(x - 2) =$ \_\_\_\_\_.

- A.  $2x^2 - 5x + 6$
- B.  $x^2 + 2x - 8$
- C.  $x^2 - 9$
- D.  $x^2 + 1$

15. If the area of a square is  $49 \text{ cm}^2$ , its one side will be:

- A. 7 cm
- B. 16 cm
- C. 18 cm
- D. 20 cm

## GENERAL KNOWLEDGE

16. The oldest Hydro-electric Project in Pakistan is:

- A. Dargai
- B. Rasul
- C. Warsak
- D. Malakand

17. Which of the following would have the most negative impact on take-off performance?

- A. Hot and humid
- B. Hot and dry
- C. Cold and humid
- D. Cold and dry

18. Management of airports is primary duty of:

- A. Station managers of airlines
- B. Airport managers
- C. Chief executive of ADA
- D. Chief security officer of ASF

**IQ**

19. What will come next?

19    9    29    8    39    ?

- A. 7
- B. 4
- C. 49
- D. 40

20. Identify the pair which is different from others:

- A. Air and Oxygen
- B. Mathematics and Geometry
- C. Teacher and Student
- D. Flower and Petal



## ANSWER KEY

Q #.	Right Choice
1	B
2	A
3	D
4	C
5	D
6	B
7	C
8	B
9	A
10	C
11	A
12	B
13	E
14	B
15	A
16	C
17	A
18	B
19	A
20	C