

# ALLEN

## ALLEN DIGITAL

### SCHOLARSHIP

# ADMISSION TEST (ADSAT)



## SYLLABUS & PATTERN CLASS-V ( MOVING TO CLASS VI )

### PHYSICS

1. Earth and Universe
2. Measurement
3. Natural Resources and Calamities
4. Force, Work and Simple Machines

### CHEMISTRY

1. Natural Resources
2. Solid, Liquid and Gas
3. Rocks and Minerals
4. Air and Water

### MATHEMATICS

1. Area and its boundary
2. Multiplication and Division
3. Factors and Multiples
4. Number Sense, Numerals and Number Name
5. Measurement
6. Shapes and Angles
7. Shapes

### BIOLOGY

1. From Tasting to Digestion
2. Seeds and Seeds
3. The Forest and Environment
4. Growing Plants

### IQ

1. Alphabet Test
2. Series
3. Coding-Decoding
4. Number Ranking
5. Direction Sense
6. Venn-Diagram
7. Non-Verbal Series
8. Mirror Image
9. Water Image
10. Classification
11. Non-Verbal Classification

# EXAM PATTERN

#### PAPER MODE: ONLINE

Part-1 Subject: IQ  
Part-2 Subjects: Physics; Chemistry; Biology;  
Mathematics

#### MARKING SCHEME

+4 for correct answer, -1 for wrong answer  
No negative marking in Part-1

#### QUESTION DISTRIBUTION

IQ: 20, Physics: 20, Chemistry: 20, Biology: 20,  
Mathematics: 40

**QUESTION TYPE:** Single Choice Questions

**DURATION OF EXAM:** 120 Minutes

#### CORPORATE OFFICE:

ALLEN DIGITAL, One Biz Square, A-12(a), Road No. 1, Indraprastha Industrial Area, Kota, Rajasthan-324005

# ALLEN

## SAMPLE QUESTIONS

### ADSAT

(Allen Digital Scholarship Admission Test)

#### Pre-Nurture and Career Foundation Division

### CLASS V

(For Class V moving to Class VI)


**READ THE INSTRUCTIONS CAREFULLY**





*Paper Instructions:*

1. This paper is divided into two sections: **Section-A & Section-B**.
2. The questions appearing in **Section-A** are based on **Mental Ability**.  
The questions appearing in **Section-B** are based on **Physics, Chemistry, Biology and Mathematics**.
3. In **Section-A**, there are **4 marks** for each correct answer and **no negative marking**. There are **4 marks** for each correct answer and **-1 negative marking** for each wrong answer in **Section-B**.
4. Use of Calculator is Not Allowed.

**Your Hard Work Leads to Strong Foundation**

**ALLEN Digital**

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## **IMPORTANT INSTRUCTIONS**

### **A. Mandatory for the student to ensure the following for taking the test:**

1. Keep your camera switched on at all times while you take the test. Failing to keep the camera on will lead to disqualification.
2. Face the camera while taking the exam and ensure your front profile, up till your shoulder at least is visible. The background should be plain with no photo frames or designs.
3. Ensure your microphone is on and there is no disturbance in the surrounding and you're sitting in a quiet room.
4. Other than one blank sheet of paper and a pen, there should not be any book or stationery in the area where exam is being attempted.

### **B. Ensure the following for a smooth exam taking experience**

1. You have good internet speed- 521 kbps at least for a smooth network. In case of internet issues, the timer will not be paused. ADSAT is not responsible for any such issues.
2. Keep your device connected and ensure there is enough charge.
3. In case of a power outage, ensure the internet and device can still operate and not disconnect from the exam taking experience.

### **C. You can be disqualified if**

1. Your microphone or camera is switched off.
2. The candidate appearing for the exam is not the same as the one registered.
3. Other than the candidate there are other people in the vicinity.
4. There is excessive background noise.
5. Student tries to connect a pen-drive or similar devices while taking the exam.
6. Student tries to browse other site or uses other devices.

### **D. General Instructions**

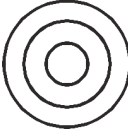

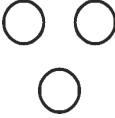
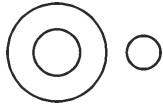
1. Join the test link 30 mins prior to the exam time to avoid any technical issues and to read the instructions. Test link will be shared via Email and SMS.
2. Remember to submit the test at the end of the exam.
3. The test will be conducted in proctored mode. Ensure that all the above rules are strictly followed.

**SECTION-A**

**MENTAL ABILITY**

This section contains 11 questions. There are 4 marks for each correct answer and no negative marks. Each question has 4 choices (1), (2), (3) and (4) out of which ONLY ONE is correct.

- 1 Arrange the given words in alphabetical order and tick the one that comes at the second place.  
 (1) Blast (2) Banishing  
 (3) Backing (4) Banking
- 2 Choose one word which can be formed from the letters of the given word.  
 C H O C O L A T E  
 (1) TELL (2) HEALTH  
 (3) LATE (4) COOLER
- 3 Find odd one out.  
 (1) 3 (2) 7 (3) 9 (4) 11
- 4 Choose the odd one out.  
 (1) K (2) I  
 (3) N (4) E
- 5 In a certain code language, 1 is coded as S, 7 as E, 9 as H, 6 as L, 0 as T and 2 as O. How is 921076 coded in that letter ?  
 (1) HOSTLE (2) HOSTEL  
 (3) HOSLET (4) TOSHEL
- 6 In a certain code language, "MAYOR" is written as "NBZPS". How is "PLAYER" written in that code language?  
 (1) QBFTRZ (2) ZRBMQF  
 (3) QMBZFS (4) RBMQFS
- 7 Find the next term in the given series.  
 1, 2, 4, 8, 16, 32, 64, ?  
 (1) 4 (2) 32  
 (3) 64 (4) 128

- 8 Gokul ranks thirteenth in a class of 38 students. What is his rank from the last?  
 (1) 25<sup>th</sup> (2) 26<sup>th</sup> (3) 24<sup>th</sup> (4) 27<sup>th</sup>
- 9 Choose the venn diagram which best illustrates the three given classes in the following question.  
 Lotus, Flower, Rose  
 (1)  (2)   
 (3)  (4) 
- 10 Pawan walks towards East and travel 17 km then turn towards North and move 12 km then again turn towards West and travel 17 km. In which direction is he from the starting point ?  
 (1) North (2) East  
 (3) South (4) West
- 11 Find the missing term in the given series.  
 A, B, D, ?, K  
 (1) F (2) G  
 (3) H (4) I

**SECTION-B**

**PHYSICS**

This section contains 6 questions. There are 4 marks for each correct answer and -1 for each incorrect answer. Each question has 4 choices (1), (2), (3) and (4) out of which ONLY ONE is correct.

- 12 Error due to manually stopping a stopwatch is termed as  
 (1) human reaction error  
 (2) ratability error  
 (3) climax error  
 (4) human reaction time
- 13 A measuring tape can measure length more than  
 (1) inch (2) meter  
 (3) centimeter (4) foot



14 Which of the following statements is not correct :

- (1) When the Sun, the Moon and the Earth come in a straight line and the moon is in centre, a solar eclipse occurs
- (2) When the Earth's completely blocks the Sunlight, the shadow is called "Umbra"
- (3) When the Earth's completely blocks the Sunlight, the shadow is called "Penumbra"
- (4) When the Earth blocks only a part of the Sunlight, the shadow is called "Penumbra"

15 Which of the following is the outermost layer of the Earth :

- (1) The Mantle                      (2) The Core
- (3) The Crust                        (4) None of these

16 The fixed point of a lever is called

- (1) fulcrum                            (2) Pulley
- (3) Axis Load                        (4) Load

17 Which of the following is an example of pulley?

- (1) Wheel and axle                  (2) Crane
- (3) Knife                                (4) Wrenches

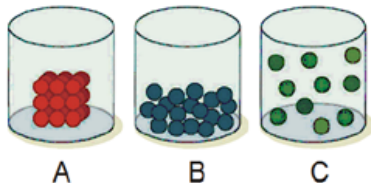
**CHEMISTRY**

This section contains 6 questions. There are 4 marks for each correct answer and -1 for each incorrect answer. Each question has 4 choices (1), (2), (3) and (4) out of which ONLY ONE is correct.

18 Which one has fixed volume and a fixed shape.

- (1) Solid                                (2) Gases
- (3) Liquid                              (4) Plasma

19 Consider the following figure and select the wrong statement from the following:



- (1) B can be mustard oil and milk.
- (2) C can be oxygen or carbon dioxide gas.
- (3) C cannot be sugar or salt.
- (4) A can be a wooden table or cough syrup.

20 Slate is which type of rock?

- (1) Igneous rock                      (2) Sedimentary rock
- (3) Metamorphic rock              (4) None of these

21 Which of the following are Non-metallic minerals ?

- (i) Bauxite      (ii) Quartz      (iii) Copper
- (iv) Graphite   (v) Gravel

- (1) (i), (ii) & (iv)                      (2) (ii) & (iv)
- (3) (i), (iii) & (v)                      (4) (ii), (iv) & (v)

22 State true (T) or false (F) for the given statement and choose correct option.

- (i) Balloon filled with hot vapours rise higher than balloon filled with air.
- (ii) Air exerts pressure.
- (iii) Land breeze blows during the day time.
- (iv) Sea breeze blows during the night time.

- (1) TTFF                                  (2) TTTT
- (3) TFTF                                  (4) FTTF

23 Which of the following are non-renewable resources ?

- (i) Wind energy                        (ii) Hydro energy
- (iii) Mineral                              (iv) Natural gas
- (v) Coal                                    (vi) Solar energy

- (1) (ii), (iv) & (v)                      (2) (iii), (iv) & (v)
- (3) (i), (ii) & (vi)                      (4) (i), (iii) & (iv)

**BIOLOGY**

This section contains 6 questions. There are 4 marks for each correct answer and -1 for each incorrect answer. Each question has 4 choices (1), (2), (3) and (4) out of which ONLY ONE is correct.

24 What is the correct order for a growing plant?

- (1) Spore, seed, seedling
- (2) Seed, spore, seedling
- (3) Seed, seedling, adult plant
- (4) Seedling, seed, adult plant

25 Which of the following is a creeper?

- (1) China-rose                        (2) Gulmohur
- (3) Strawberry                        (4) Mango

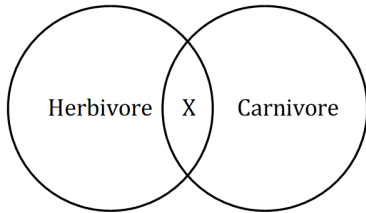
26 Which of the following is a climber?

- (1) Watermelon                        (2) pumpkin
- (3) Both (1) and (2)                  (4) Money plant

27 The process by which plants prepare their own food.

- (1) Respiration (2) Photosynthesis  
(3) Excretion (4) Transportation

28 Look at the venn diagram given here. X is most probably a -



- (1) Cow (2) Human  
(3) Rabbit (4) Lion

29 Which one of the following is an omnivore ?

- (1) Cockroach (2) Lion  
(3) Deer (4) Green plant

**MATHEMATICS**

This section contains 11 questions. There are 4 marks for each correct answer and -1 for each incorrect answer. Each question has 4 choices (1), (2), (3) and (4) out of which ONLY ONE is correct.

30 Niharika walks thrice around a square field of side 22 m. Girish walks twice around a rectangular field of length 10 m and breadth 12 m. Who covers more distance and by how much ?

- (1) Girish, 20 m (2) Niharika, 200 m  
(3) Girish, 176 m (4) Niharika, 176 m

31 Study the given statements carefully and select the correct option.

**Statement-I :** 7456824 is divisible by 9.

**Statement-II :** A natural number is divisible by 9, if the sum of the digits of the number is divisible by 3.

- (1) Both Statement-I and Statement-II are true.  
(2) Both Statement-I and Statement-II are false.  
(3) Statement-I is true but Statement-II is false.  
(4) Statement-I is false but Statement-II is true.

32 The common factor of 9 and 15 is

- (1) 3 (2) 6 (3) 9 (4) 15

33 The weight of a basket ball is about 600000 mg. It is

- (1) less than 600 g (2) greater than 600 g  
(3) equal to 600 g (4) none of these

34 A : 10 lakh = 1 million

B : 1000 million = 1 billion

C : 10 crore = 100 million

- (1) Only A, B are correct  
(2) Only A, C are correct  
(3) Only B, C are correct  
(4) A, B, C are correct

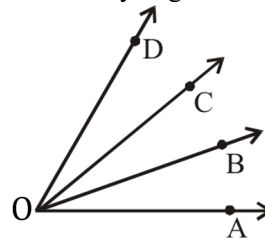
35 Find the difference between largest 5-digit number and largest 4 digit number ?

- (1) 9000 (2) 90000  
(3) 99999 (4) 90999

36 Which of the following is not a true statement ?

- (1) A point has no dimension.  
(2) A line segment has no end points.  
(3) A line extends indefinitely in both sides.  
(4) A plane is a flat surface that extends indefinitely in all directions.

37 How many angles are shown in below figure ?



- (1) 7 (2) 9  
(3) 6 (4) 8

38 Read the statements given below and identify the correct option.

- (i) Every diameter of a circle is also a chord.  
(ii) Every chord of a circle is also a diameter.  
(iii) The centre of a circle is always in its interior.

- (1) (i) → False (ii) → True (iii) → False  
(2) (i) → True (ii) → False (iii) → True  
(3) (i) → True (ii) → False (iii) → False  
(4) (i) → True (ii) → True (iii) → False

39 The next three numbers of the pattern 4, 9, 16,.....are

- (1) 23, 30, 37                      (2) 25, 36, 49  
(3) 20, 24, 28                      (4) 25, 35, 45

40 An auditorium had 240 rows of chairs. If there are 170 chairs in each row, how many persons can be seated in the auditorium?

- (1) 40800                              (2) 408  
(3) 41000                              (4) 410

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OBJECTIVE****ANSWER KEY**

Q.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
A.	2	3	3	4	2	3	4	2	2	1	2	4	2	3	3	1	2	1	4	3
Q.	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
A.	4	1	2	3	3	4	2	2	1	4	3	1	3	4	2	2	3	2	2	1

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*Your Hard Work Leads To Strong Foundation*

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