

# ISMART SAMPLE PAPER FOR CLASS 6<sup>th</sup> MOVING TO CLASS 7<sup>th</sup> (NURTURE)

		Test ID: 00000000
Time: 90 min.		M. Marks: 240
		Consists (TOTAL 60 QUESTIONS)
SUBJECTS	Qs.	SYLLABUS
Section A : Reasoning		
REASONING	10	General Reasoning
Section B : Scholastic Aptitude		
PHYSICS	12	Measurement, Light, Magnetism
CHEMISTRY	11	Water, Separation of Substances, Matter
BIOLOGY	12	Components of Food, Getting to Know Plants
MATHEMATICS	15	Number System, General Geometry, Data Handling,
		Perimeter and Area
+4 marks will be awarded	for con	sts of multiple choice questions with only one correct answer. rect answer and there is no negative marking.
	_	for each question carefully and fill the correct answer against the heet in the respective subject.
Use ball point pen to dark	en the	appropriate circle & mark should completely fill the circle.
The Question paper conta provided for rough work.	ins bl	ank spaces for your rough work. No additional sheet will be
Blank papers, Clipboards Electronic gadgets in any fo	-	Tables, Slide rule, Calculators, Cellular phones, Pagers and e not allowed.
•		ne block at the top of the Answer Sheet. Also write your Name & on this cover page of question paper.
		Student ID

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#### **REASONING**

1. If U is denoted by 7, M by 2, I by 5, O by 1, K by 8 and J by 4, then what will be the numeric form of the word MOUJIK when written in the reverse order?

(A) 217458

(B) 845712

(C)854712

(D) 857412

2. Dad gives you money every day to put in your new piggy bank. He gives money to you in such a way that the money in the piggy bank doubles with each passing day.

Dad gives you 1 cent the first day, 2 cents the second day, 4 cents the third day and so

Dad gives you I cent the first day, 2 cents the second day, 4 cents the third day and so on, then your piggy bank gets full on the 16th day.

On which day will your piggy bank be half-full?

(A) 8th

 $(B)_{10}th$ 

(C)<sub>12th</sub>

(D) 15th

3. Bodo weighs 60 pounds more than his sister Rebecca. Their combined weight is 100 pounds. How many pounds does Bodo weigh?

(A) 20

(B)40

(C)60 (D)80

4. There is a village that has five fortune tellers. The first fortune teller's prediction has 84 % chance of being correct. The second has 58 % chance of being correct, the third 47 %, the fourth 33 %, and the fifth 6 %.

If you were trying to get the best prediction of your future, which fortune teller would you go to?

(A) 1st

(B) 3rd

(C)4th

 $(D)_5^{th}$ 

5. Fill in the blank - Earth, Jupiter, \_\_\_\_\_\_Pluto

(A) Uranus

(B) Mercury

(C) Mars

(D) Venus

6. Fill in the blank- rocket, plane, \_\_\_\_\_, bicycle

(A) cart

(B) tricycle

(C) spacecraft

(D) train

7. In which of the following options the letters are in alphabetical order –

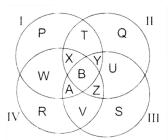
(A) butterfly

(B) iquest

(C) almost

(D) reasoning

Directions (Q. 8-9): These questions are based on the following diagram. Study the diagram and its information given below it. Choose the correct alternative given below each question and mark the number of that choice as your answer.



Circle I represents the people who eat Vanilla ice cream.

Circle II represents the people who eat Tuti-Fruity ice cream.

Circle III represents the people who eat Butter Scotch ice cream.

Circle IV represents the people who eat cornetto ice cream.

- 8. Which of the following represents the people who eat Vanilla ice cream as well as Tuti-Fruity but not any other ice cream?
  - (A) T

(B) P

(C)Q

(D) P and O

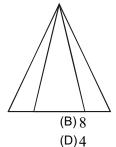
- 9. Which of the following represents the people who eat all the four ice cream?
  - (A) A

(B) V

(C)B

(D)Z

10. Count the number of triangles in the given figure.



# **Physics**

11. The prefix used to represent  $10^{-2}$  is called

(A) milli

(A) 6

(C) 10

(B) Centi

(C)kilo

(D) Deci

12. Rahul has a storage box that measures 12 cm wide, 16.5 cm long and 10 cm high. It has a mass of 850 g. What is the density of the box?

(A)  $1980 \text{ cm}^3$ 

(B)  $38.5 \text{ cm}^3$ 

 $(C) 2.3 \text{ g/cm}^3$ 

(D)  $0.43 \text{ g/cm}^3$ 

13. What is the greatest time interval among the following:

(A) 20 sec

(B) 0.30 minutes

(C).004 hours

(D).00009 days

14. How much is 5 m + 5 cm?

(A) 10 m

(B) 10 cm

(C) 5.05 cm

(D)505 cm

15. Which of the following measurement have not been expressed in correct S.I. unit?

(A) 5 m of cloth

(B) 20 seconds of time

- (C) Surface area of 25(D)2 kg cooking oil cm<sup>2</sup>
- 16. The straight line path along which the light travels in a homogeneous medium is called

(A) Beam

(B) Ray

(C) Parallel Beam

(D) None of these

17. It is a medium through which light cannot be propagated

(A) Transparent

(B) Translucent

(C) Opaque

(D) None of these

18. The speed of light in vacuum or free space is

(A)  $3 \times 10^8 \text{ m/s}$ 

(B)  $2.9\times10^8~m/s$ 

(C)  $2.25 \times 10^8 \text{ m/s}$ 

(D)  $2 \times 10^8 \text{ m/s}$ 

- 19. What is a magnet?
  - (A) A stone that shines (B) A material that attracts only wood
  - (C) A material that (D) A material that attracts iron and repels all metals steel
- 20. Which of the following is attracted by a magnet
  - (A) Plastic
- (B) Paper
- (C) Iron nail
- (D) Glass
- 21. When a beam of light is incident on a polished interface and is sent back in the same medium. This phenomenon is called
  - (A) refraction
- (B) reflection
- (C)Both A and B
- (D) None of the above
- 22. Which of the following is NOT a magnetic material?
  - (A) Iron
- (B) Nickel
- (C) Plastic
- (D) Cobalt

### Chemistry

- 23. Which of the following represents an element?
  - (A) Brass
- (B) Stainless steel
- (C) Arsenic
- (D) Silica
- 24. Which of the following represents a solid-liquid mixture?
  - (A) A mixture of sugar(B) Air and sand

- (C) Air trapped in soil (D) A solution of particles common salt in water
- 25. Which of the following is a chemical change ?
  - (A) Mixing of iron (B) Freezing of water filings and sand
  - (C) Passage of (D) Burning of a electricity through candle wires
- 26. Why is evaporation faster on a windy day?
  - (A) Wind slows down (B) Wind increases water movement water pressure
    - (C) Wind removes (D) Wind turns water water vapor, into ice allowing more to evaporate
- 27. Which of the following is not an element?
  - (A) Oxygen
- (B) Bromine
- (C) Paper
- (D)Zinc
- 28. Ravi added some sugar to water and stirred it. He was surprised to see that the water level did not increase. What is the reason?
  - (A) Water shrank
- (B) Sugar floated
- (C) Sugar dissolved in (D) Sugar turned into spaces between water water molecules
- 29. Among the following substances, which one is a element?
  - (A) Diamond
- (B) Brass
- (C) Sand
- (D) Air

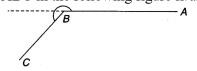
	Which of the following is a compound?  A) Stainless steel (B) Bronze  C) Graphite (D) Hydrogen sulphide		(C) Improves digestion (D) Increases blood and bowel level movement		
31.	Which pairs of substance are both mixtures?  (A) Air, sea water  (B) Sea water, ethanol  (C) Iron, water  (D) Lime water,	35.	The part of a banana plant not used as food is  (A) flower (B) fruit		
	marble		(C) <sub>stem</sub> (D) <sub>Root</sub>		
32.	Which of the following is not a physical change?	36.	Green, flat and expanded part of leaf is called		
	(A) Dissolution of (B) Dissolution of		(A) Petiole (B) Lamina		
	oxygen in water carbondioxide in		(C) Tendril (D) none		
	water	37.	Insectivorous plants are known as		
	(C) Dissolution of (D) Dissolution of salt alcohol in water in water		(A) Herbivorous (B) carnivorous		
33.		30	(C) omnivorous (D) none		
00.	Scient the correct and matrix (3)	e nge in always 39.	A plant consists of main		
	(i) Melting of ice is a physical change		system.		
	(ii) A physical change is due to change in		(A) Two (B) Three		
	physical properties of a substance		(C) Four (D) none		
	(iii) A physical change is always irreversible in nature		Bryophyllum is also called		
	(iv) burning of candle is an example of		(A) sprout leaf plant (B) pitcher plant		
	physical change		(C) bladderwort (D) none		
	(A) (i) & (ii) (B) (i) & (iv)	40.	Which is a correct reason why we need		
	(C)(i), (ii) & (iv) (D)(ii) & (iii)		balanced food instead of just eating the same		
			food every day?		
	Biology		(A) To avoid hunger (B) To make food		
34.	A food label says "rich in roughage." Which		interesting		
	benefit does this provide to your body?		(C) To ensure all(D) To save money		
	(A) Builds bones (B) Gives instant		nutrients are		
	energy		received		

41.	Which of the following is a root vegetable?  (A) Potato (B) Carrot (C) Cucumber (D) Onion  is essential for forming haemoglobin in the blood.  (A) calcium (B) iron (C) phosphorous (D) Magnesium		to get a number exac	•
43.	During an experiment, a student covers a lear with black paper on both sides and places the plant in sunlight. What would happen to that leaf?  (A) It turns red  (B) It stores extra starch		(A) 46 (C) 3 Which of these integ the number line? (A) – 15 (C) 2 7 – [13 – {– 2 – 6 (6	(B) 1 (D) 7 gers is closest to zero on (B) - 3 (D) - 1 of - 5) } ]
44.	(C) No photosynthesis (D) It grows faster will take place Which parts of the mustard plant can be used as food (A) seed and stem (B) seed and leaf		(A) - 172 (C) + 172 Reciprocal of $1\frac{3}{4}$ is (A) $1\frac{4}{3}$	
45.	(C) stem and root (D) root and seed A plant with weak stem is (A) Mint (B) Sunflower (C) Lemon (D) China rose	51.	(C) $3\frac{1}{4}$ If the perimeter of a then the length of its	(D) None of these square is $(4y + 12) m$ ,
46.	Mathematics  Express $\frac{42}{-63}$ as a rational number with denominator 3.		$(A) \frac{y+3}{\sqrt{2}} m$ $(C) \sqrt{2} (4y+12) m$	(B) $\sqrt{2} (y + 3)m$ (D) $\frac{4y + 12}{\sqrt{2}}m$ of a square to that of the

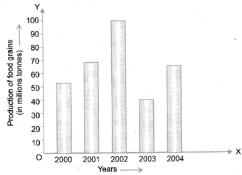
- (A) 1 : 1 (B) 1 : 2 (C) 1 : 3 (D) 1 : 4
- 53. The length of a rectangle is 1 cm more than its width and its perimeter is 14 cm, then the area of the rectangle is
  - (A)  $16 \text{ cm}^2$
- (B)  $14 \text{ cm}^2$
- (C)  $12 \text{ cm}^2$
- (D)  $10 \text{ cm}^2$
- 54. If each of the dimensions of a rectangle is increased by 100%, then the area is increased by
  - (A) 100%
- (B) 200%
- (C) 300%
- (D)400%
- 55. If the length of a rectangle is increased by  $\frac{1}{3}$ rd and the width is decreased by  $\frac{1}{3}$ rd, then the area of the rectangle is decreased by the fraction.
  - (A) 2/3
- (B) 1/6
- (C) 1/9
- (D) 1/8
- 56. The length of a given rectangle is increased by 20% and the breadth is decreased by 20%, then the area
  - (A) remains the same (B) increases by 5%
  - (C) decreases by 5% (D) decreases by 4%
- 57. The angle at a point is
  - $(A) 90^{\circ}$
- (B)  $180^{\circ}$
- $(C)300^{\circ}$
- (D) 360°
- 58. Two angles are called adjacent if
  - (A) They lie in the (B) They have a ray in same plane and common

have a common vertex

- (C) The intersection of (D) All the above their interiors is empty
- 59. Angle ABC in the following figure is/an



- (A) acute angle
- (B) obtuse angle
- (C)reflex angle
- (D) straight angle
- 60. The given bar graph shows the annual production of food grains in a state during the period 2000 to 2024.



Find the ratio between the maximum production and the minimum production during the given period.

- (A) 5 : 2
- (B) 5 : 3
- (C)5:4
- (D)5:5

## **Answer Key**

1.	С
2.	D
3.	D
4.	D
5.	Α
6.	D
7.	С
8.	Α
9.	С
10.	Α
11.	В
12.	D
13.	Α
14.	D
15.	С
16.	В
17.	С
18.	Α
19.	C C
20.	С

21. B

22. C

23. C

24. D 25. D 26. C 27. C 28. C 29. A 30. D 31. A 32. B 33. A 34. C 35. D 36. B 37. B 38. A 39. A 40. C 41. B 42. B 43. C 44. B 45. A 46. C 47. C 48. D 49. C 50. D 51. B 52. B 53. C 54. C 55. C 56. D 57. D 58. D 59. C

60. A