

Practice Test - 2

Class - VII

(For students moving to Class VIII)

SUBJECTS

Science

- Physics
- Chemistry
- Biology

Mathematics

Mental Ability

For More information

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ISAT Practice Test

2

Time: 1 Hr 15 Min

Maximum Marks: 168

CLASS-7

General Instructions

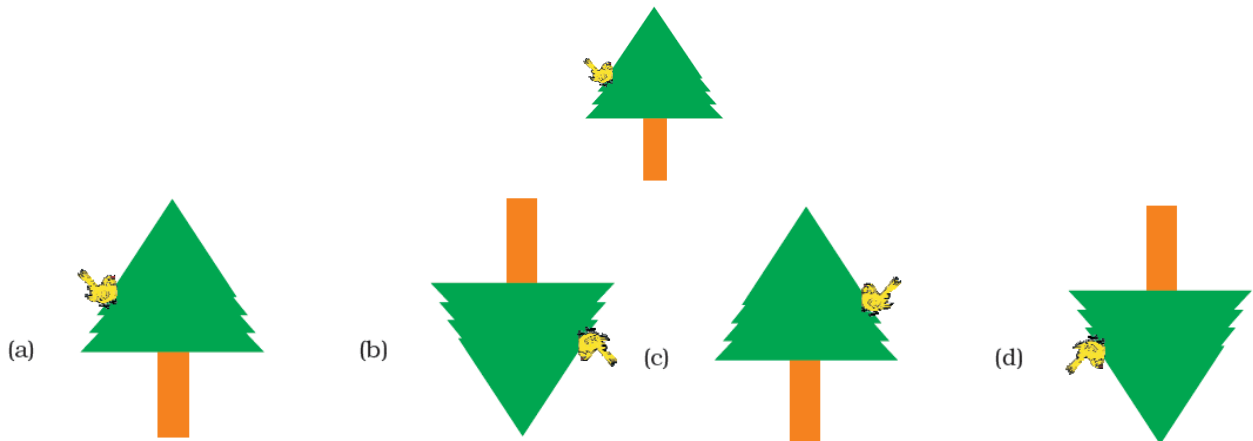
1. There are a total of **42** multiple choice questions.
2. This test contains 5 section (Physics, Chemistry, Biology, Mathematics & Mental Ability).
3. **Marking Scheme:**
+4 Correct Response, -1 Incorrect Response, 0 No response

DATE: ____/____/____

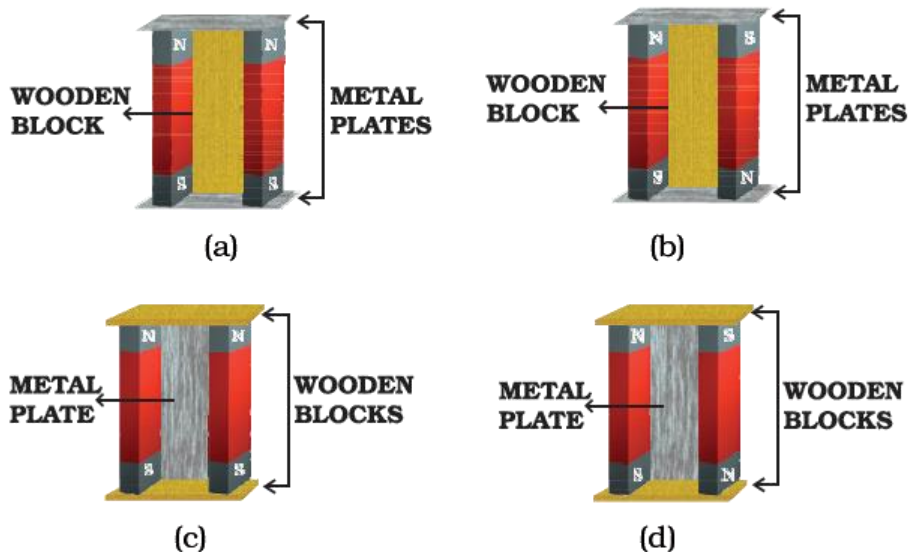
NAME:

PHYSICS

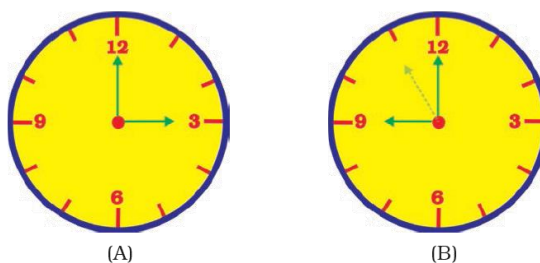
- (1) Which of the following does not express a time interval?
- (a) A day
 - (b) A second
 - (c) A school period
 - (d) Time of the first bell in the school
- (2) A student observes a tree given in Fig., through a pin hole camera. Which of the diagrams given in Fig., (a) to (d), depicts the image seen by her correctly?



- (3) Choose the incorrect statement.
- A switch is the source of electric current in a circuit.
 - A switch help to complete or break the circuit.
 - A switch helps us to use electricity as per our requirement.
 - When the switch is open there is an air gap between its terminals.
- (4) The arrangement to store two magnets is shown by figures (a), (b), (c) and (d) in Fig. Which one of them is the correct arrangement?

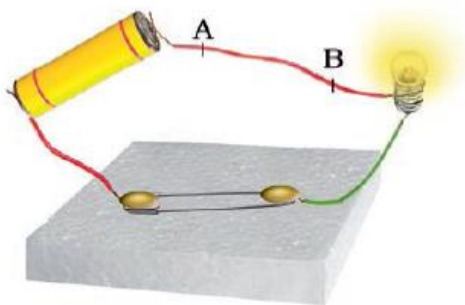


- (5) A beggar wrapped himself with a few layers of newspaper on a cold winter night. This helped him to keep himself warm because
- friction between the layers of newspaper produces heat
 - air trapped between the layers of newspaper is a bad conductor of heat
 - newspaper is a conductor of heat
 - newspaper is at a higher temperature than the temperature of the surrounding
- (6) Two clocks A and B are shown in Figure. Clock A has an hour and a minute hand, whereas clock B has an hour hand, minute hand as well as a second hand. Which of the following statement is correct for these clocks?



- A time interval of 30 seconds can be measured by clock A
- A time interval of 30 seconds cannot be measured by clock B
- Time interval of 5 minutes can be measured by both A and B
- Time interval of 4 minutes 10 seconds can be measured by clock A

- (7) When an electric current flows through a copper wire AB as shown in Figure, the wire



- (a) deflects a magnetic needle placed near it
- (b) becomes red hot
- (c) gives electric shock
- (d) behaves like a fuse

CHEMISTRY

- (8) Silk fibre is obtained from
(a) fleece of sheep (b) cotton ball (c) cocoon (d) shiny jute stalk
- (9) Which of the following change cannot be reversed?
(a) Hardening of cement (b) Freezing of ice cream
(c) Opening a door (d) Melting of chocolate
- (10) Neutralisation reaction is a
(a) physical and reversible change.
(b) physical change that cannot be reversed.
(c) chemical and reversible change.
(d) chemical change that cannot be reversed.
- (11) Reeling of silk is
(a) a process of making silk reels.
(b) spinning of silk fibres.
(c) weaving of silk cloth.
(d) the process of taking silk threads from cocoon.
- (12) Which part of the jute plant is used for getting jute fibre?
(a) Flower (b) Stem (c) Fruit (d) Leaf
- (13) Paheli asked for a glass of water from Boojho. He gave her a glass of ice cold water. Paheli observed some water droplets on the outer surface of the glass and asked Boojho how these droplets of water were formed? Which of the following should be Boojho's answer?
(a) Evaporation of water from the glass.
(b) Water that seeped out from the glass.
(c) Evaporation of atmospheric water vapour.
(d) Condensation of atmospheric water vapour.

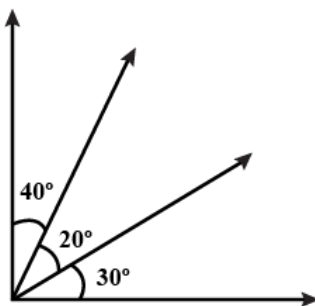
- (14) When the soil is too basic, plants do not grow well in it. To improve its quality what must be added to the soil?
(a) Organic matter (b) Quick lime
(c) Slaked lime (d) Calamine solution

BIOLOGY

- (15) Which of the following organism can do anaerobic respiration?
(a) Euglena (b) Yeast (c) Paramecium (d) Amoeba
- (16) Which is the correct sequence of the air passage in man?
(a) nasal cavity → larynx → pharynx → trachea → bronchi → bronchioles → alveoli
(b) nasal cavity → pharynx → trachea → larynx → bronchi → bronchioles → alveoli
(c) nasal cavity → larynx → bronchi → pharynx → trachea → bronchioles → alveoli
(d) nasal cavity → pharynx → larynx → trachea → bronchi → bronchioles → alveoli
- (17) Female reproductive parts of flowers is:
(a) Sepal (b) Petal (c) Stamen (d) Pistil
- (18) Asexual reproduction occurs through budding in
(a) Rose (b) Neem (c) Yeast (d) Ginger
- (19) Phloem helps in the transport of _____ in plants.
(a) food (b) water (c) minerals (d) carbon dioxide
- (20) The main cause of soil erosion is
(A) afforestation (b) less rains
(c) thinning of ozone layer (d) deforestation
- (21) In a forests ecosystem green plants are
(a) Primary producers (b) Primary consumers
(c) Decomposers (d) None of these

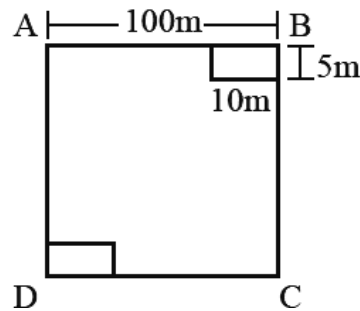
MATHEMATICS

- (22) The product of a non-zero whole number and its successor is always divisible by
(a) 2 (b) 3 (c) 4 (d) 5
- (23) The number of angles in Fig. is



- (a) 3 (b) 4 (c) 5 (d) 6
- (24) The least integer lying between -10 and -15 is
(a) -10 (b) -11 (c) -15 (d) -14

- (25) Which of the following is not equal to the others?
 (a) $\frac{6}{8}$ (b) $\frac{12}{16}$ (c) $\frac{15}{25}$ (d) $\frac{18}{24}$
- (26) A square shaped park ABCD of side 100 m has two equal rectangular flower beds each of size 10 m \times 5 m (Fig.) Length of the boundary of the remaining park is



- (a) 360 m (b) 400 m (c) 340 m (d) 460 m
- (27) If the perimeter of a regular hexagon is x metres, then the length of each of its sides is
 (a) $(x + 6)$ metres (b) $(x \div 6)$ metres (c) $(x - 6)$ metres (d) $(6 \div x)$ metres
- (28) Mathematics textbook for Class VI has 320 pages. The chapter 'symmetry' runs from page 261 to page 272. The ratio of the number of pages of this chapter to the total number of pages of the book is
 (a) 11 : 320 (b) 3 : 40 (c) 3 : 80 (d) 272 : 320
- (29) The number of lines of symmetry in compasses is
 (a) 0 (b) 1 (c) 2 (d) 3
- (30) $-16 \div [8 \div (-2)]$ is equal to
 (a) -1 (b) 1 (c) 4 (d) -4
- (31) Which of the following has the smallest value?
 (a) 0.0002 (b) $\frac{2}{1000}$ (c) $\frac{(0.2)^2}{2}$ (d) $\frac{2}{100} \div 0.01$
- (32) Out of 5 brands of chocolates in a shop, a boy has to purchase the brand which is most liked by children. What measure of central tendency would be most appropriate if the data is provided to him?
 (a) Mean (b) Mode (c) Median (d) Any of the three
- (33) Which of the following equations can be formed using the expression $x = 5$:
 (a) $2x + 3 = 13$ (b) $3x + 2 = 13$ (c) $x - 5 = 1$ (d) $4x - 9 = 21$
- (34) If two lines are intersected by a transversal, then the number of pairs of interior angles on the same side of the transversal is
 (a) 1 (b) 2 (c) 3 (d) 4
- (35) In a scout camp, 40% of the scouts were from Gujarat State and 20% of these were from Ahmedabad. The percentage of scouts in the camp from Ahmedabad is:
 (a) 25 (b) 32.5 (c) 8 (d) 50

MENTAL ABILITY

- (36) Complete the given series 61, 67, 71, 73, 79,
- (a) 81 (b) 82 (c) 83 (d) 85
- (37) Complete the given series 8, 24, 12, 36, 18, 54,
- (a) 27 (b) 29 (c) 31 (d) 32
- (38) Arrange the given words in the sequence in which they occur in the dictionary and then choose the correct sequence.
1. Page 2. Pagan 3. Palisade 4. Pageant 5. Palate
- (a) 1, 4, 2, 3, 5 (b) 2, 4, 1, 3, 5 (c) 2, 1, 4, 5, 3 (d) 1, 4, 2, 5, 3
- (39) In a code language, if SUGAR is coded as ZNMDB and TEA is coded as FLD, how would you code GRATE in the same code language.
- (a) BNDFL (b) MBDFL (c) LDZMN (d) FLDZB
- (40) It in a certain language CHENNAI is coded as 'DGFMOZJ' how is MUMBAI coded in the same language?
- (a) NTNABH (b) LVLCZJ (c) LTLCBH (d) NVNCBJ
- (41) A person starts from a point A and travels 3 km eastwards to B and then turns left and travels thrice that distance to reach C. He again turns left and travels five times the distance he covered between A and B and reaches his destination D. The shortest distance between the starting point and the destination is
- (a) 12 km (b) 15 km (c) 16 km (d) 18 km
- (42) A child crawls 20 feet towards North, turns right and crawls 30 feet, turns right again and crawls 35 feet. He turns left again and crawls 15 feet. He turns left again and crawls 15 feet. Finally he turns to his left to crawl another 15 feet. How far is he from his starting point and in which direction
- (a) 45 feet North-East (b) 30 feet East
(c) 30 feet West (d) 15 feet West



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Toppers



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Rajpath Complex,Vasna-Bhayli Main Rd, Near Bright Day School,Opp Essar Petrol Pump

CLASS-7-ISAT-PRACTISE TEST-2-ANSWER KEY

1.	(d)	2.	(b)	3.	(a)	4.	(b)	5.	(b)	6.	(c)	7.	(a)	8.	(c)
9.	(a)	10.	(d)	11.	(d)	12.	(b)	13.	(d)	14.	(a)	15.	(b)	16.	(d)
17.	(d)	18.	(c)	19.	(a)	20.	(d)	21.	(a)	22.	(a)	23.	(d)	24.	(d)
25.	(c)	26.	(b)	27.	(b)	28.	(c)	29.	(a)	30.	(c)	31.	(a)	32.	(b)
33.	(a)	34.	(b)	35.	(c)	36.	(c)	37.	(a)	38.	(c)	39.	(b)	40.	(a)
41.	(b)	42.	(b)												