I SAT

ISAT Practice Test 3

Time: 1 Hours
Maximum Marks: 168

CLASS-7

General Instructions

1. There are **42** questions in this question paper with internal choice.
2. Each test will have 5 sections.
3. Physics, Chemistry, Biology, Mathematics & Mental Ability.
4. Each Question will be **MCQ-Type** (Multiple Choice Question with One Option Correct.)
5. **Marking Scheme:**
   +4 Correct Response, **-1** Incorrect Response, **0** No response

DATE: _____/_____/_____

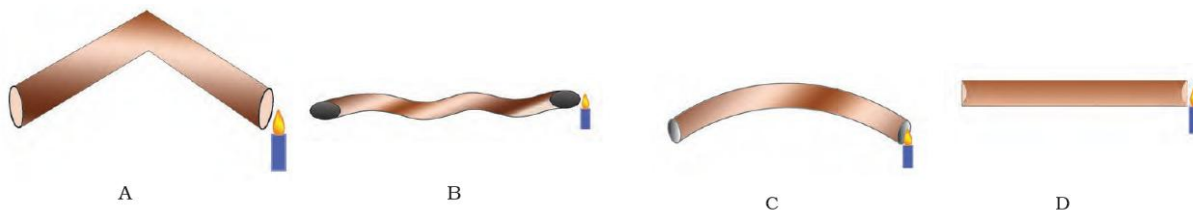NAME: --

PHYSICS

(1) Fig., shows a measuring scale which is usually supplied with a geometry box. Which of the following distance cannot be measured with this scale by using it only once?

(a) 0.1 m   (b) 0.15 m   (c) 0.2 m   (d) 0.05 m

(2) Four students A, B, C and D looked through pipes of different shapes to see a candle flame as shown in Fig.
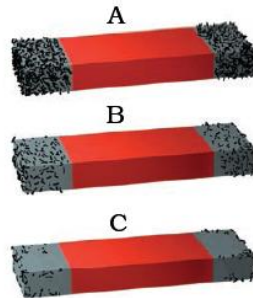

Who will be able to see the candle flame clearly?

(a) A   (b) B   (c) C   (d) D

(3) In an electric bulb, light is produced due to the glowing of
(a) the glass case of the bulb.
(b) the thin filament.
(c) the thick wires supporting the filament.
(d) gases inside glass case of the bulb.

(4) Three magnets A, B and C were dipped one by one in a heap of iron filing. Fig. shows the amount of the iron filing sticking to them.
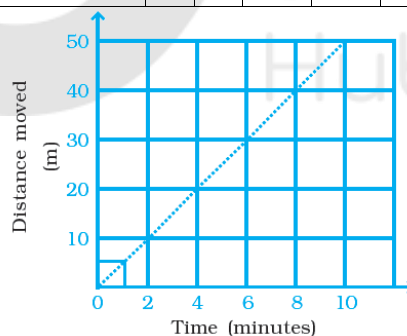

The strength of these magnets will be
(a) A > B > C   (b) A < B < C   (c) A = B = C   (d) A < B > C

(5) Sakshi and Samarth measured their body temperature. Sakshi found her's to be 98.6 °F and Samarth recorded 37°C. Which of the following statement is true?
(a) Sakshi has a higher body temperature than Samarth
(b) Sakshi has a lower body temperature than Samarth
(c) Both have normal body temperature
(d) Both are suffering from fever

(6) Two students were asked to plot a distance-time graph for the motion described by Table A and Table B

Table A

Distance moved (m)	0	10	20	30	40	50
Time (minutes)	0	2	4	6	8	10

Table B

Distance moved (m)	0	5	10	15	20	25
Time (minutes)	0	1	2	3	4	5

The graph given in Figure is true for
(a) both A and B.   (b) A only
(c) B only.   (d) neither A nor B

(7) An image formed by a lens is erect. Such an image could be formed by a
(a) convex lens provided the image is smaller than object
(b) concave lens provided the image is smaller than object
(c) concave lens provided the image is larger than object
(d) concave lens provided the image is of the same size

CHEMISTRY

(8) Wool fibre cannot be obtained from which of the following?
(a) Goat   (b) Llama   (c) Alpaca   (d) Moth

(9) Rolling of chapati and baking of chapati are the changes that
(a) can be reversed.
(b) cannot be reversed.
(c) can be reversed and cannot be reversed, respectively.
(d) cannot be reversed and can be reversed, respectively.

(10) Which of the following set of substances contain acids?
(a) Grapes, lime water   (b) Vinegar, soap
(c) Curd, milk of magnesia   (d) Curd, vinegar

(11) Silkworms secrete fibre made of
(a) fat   (b) cellulose   (c) protein   (d) nylon

(12) The correct sequence to get cloth is:
(a) fibre → fabric → yarn   (b) fibre → yarn → fabric
(c) fabric → yarn → fibre   (d) yarn → fibre → fabric

(13) In an activity, a teacher dissolved a small amount of solid copper sulphate in a tumbler half filled with water. Which method would you use to get back solid copper sulphate from the solution?
(a) Decantation   (b) Evaporation   (c) Sedimentation (d) Condensation

(14) The correct way of making a solution of acid in water is to
(a) add water to acid.
(b) add acid to water.
(c) mix acid and water simultaneously.
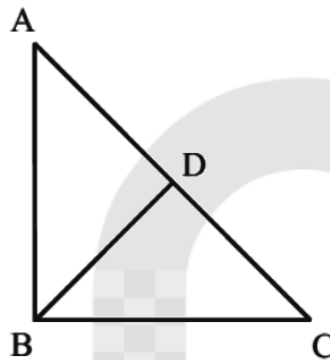(d) add water to acid in a shallow container.

BIOLOGY

(15) In leaves the structure involved in gaseous exchange is
(a) stomata   (b) lenticle   (c) leaf surface   (d) simple pore

(16) Vegetative part of plant is:
(a) Roots   (b) Stems   (c) Leaves   (d) All

(17) Male reproductive part of flowers is:
(a) Sepal   (b) Petals   (c) Stamen   (d) Pistil

(18) Reproductive parts of potato is:
(a) Stem   (b) Leaf   (c) Root   (d) both root and leaf

(19) Upper chambers of a human heart are called:

(a) atria   (b) ventricles

(c) pulmonary veins   (d) vena cava

(20) Soil has biotic component except

(a) bacteria   (b) earthworm   (c) fungi   (d) water

(21) In a food chain green plants form

(a) First trophic level   (b) Second trophic level
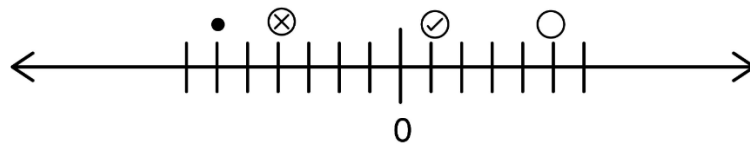
(c) Third trophic level   (d) Complete food chai

MATHEMATICS

(22) The sum of first three common multiples of 3, 4 and 9 is

(a) 108   (b) 144   (c) 252   (d) 216

(23) In Fig., AB = BC and AD = BD = DC. The number of isosceles triangles in the figure is
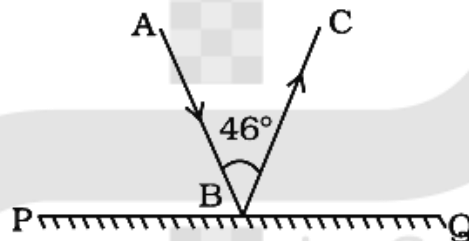

(a) 1   (b) 2   (c) 3   (d) 4

(24) The successor of the predecessor of −50 is

(a) −48   (b) −49   (c) −50   (d) −51

(25) The two consecutive integers between which the fraction $\dfrac{5}{7}$ lies are

(a) 5 and 6   (b) 0 and 1   (c) 5 and 7   (d) 6 and 7

(26) The side of a square is 10 cm. How many times will the new perimeter become if the side of the square is doubled?

(a) 2 times   (b) 4 times   (c) 6 times   (d) 8 times

(27) Savitri has a sum of Rs x. She spent Rs 1000 on grocery, Rs 500 on clothes and Rs 400 on education, and received Rs 200 as a gift. How much money (in Rs) is left with her?

(a) x − 1700   (b) x − 1900   (c) x + 200   (d) x − 2100

(28) In a box, the ratio of red marbles to blue marbles is 7 : 4. Which of the following could be the total number of marbles in the box?

(a) 18   (b) 19   (c) 21   (d) 22

(29) The number of lines of symmetry in a 45° − 45° − 90° set-square is

(a) 0   (b) 1   (c) 2   (d) 3

(30) $\otimes$, $\bigcirc$, $\checkmark$ and • represent some integers on number line, then descending order of these numbers is

(a) ● $\otimes$, $\checkmark$ $\bigcirc$ (b) $\otimes$, ●, $\checkmark$, $\bigcirc$ (c) $\bigcirc$, $\checkmark$, $\otimes$, ●   (d) $\bigcirc$, ●, $\otimes$, $\checkmark$

(31) Which of the following has the largest value?

(a) $\dfrac{32}{0.05}$ (b) $\dfrac{0.320}{50}$ (c) $\dfrac{3.2}{0.05}$ (d) $\dfrac{3.2}{50}$

(32) Which measures of central tendency get affected if the extreme observations on both the ends of a data arranged in descending order are removed?
(a) Mean and mode   (b) Mean and Median
(c) Mode and Median   (d) Mean, Median and Mode

(33) Which of the following is not allowed in a given equation?
(a) Adding the same number to both sides of the equation.
(b) Subtracting the same number from both sides of the equation.
(c) Multiplying both sides of the equation by the same non-zero
(d) Dividing both sides of the equation by the same number.

(34) In Fig., PQ is a mirror, AB is the incident ray and BC is the reflected ray. If ∠ABC = 46°, then ∠ABP is equal to

(a) 44°   (b) 67°   (c) 13°   (d) 62°

(35) A bicycle is purchased for Rs 1800 and is sold at a profit of 12%. Its selling price is
(a) Rs 1584   (b) Rs 2016   (c) Rs 1788   (d) Rs 1812

MENTAL ABILITY

(36) Choose the missing term out of the given alternatives.
D-4, F-6, H-8, J-10, ? ?
(a) K-12, M-13   (b) L-12, M-14   (c) L-12, N-14   (d) K-12, M-14

(37) In each of the following questions, one term is wrong. Find out the wrong term.
1, 2, 4, 8, 16, 32, 64, 96
(a) 4   (b) 32   (c) 64   (d) 96

(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 this question, four groups of letters are given. Three of them are alike in a certain way while one is different. Choose the odd one.

(a) XW   (b) FG   (c) ML   (d) PO

(40) In a certain code, if BLACK is KCALB then THEFT is ?

(a) TFEHT   (b) FHETT   (c) TEHFT   (d) TFHET

(41) A rat runs 20 m towards East and turns to right, runs 10 m and turns to right, runs 9 m and again turns to left, runs 5 m and turns to left, runs 12m and finally turns to left and runs 6 m. Now which direction is the rat facing?

(a) East   (b) West   (c) North   (d) North-east

(42) Find the number in place of question mark (?) in the following matrix

1	2	3
11	7	5
120	45	?

(a) 19   (b) 17   (c) 16   (d) 15

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