ISAT Practice Test **1**

Time: 1 Hours
Maximum Marks: 168
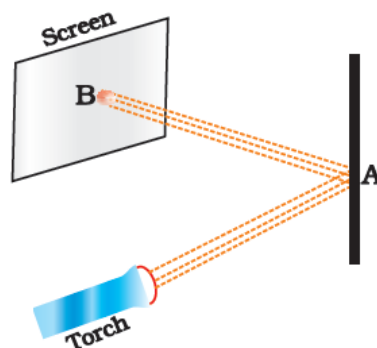
CLASS-7

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

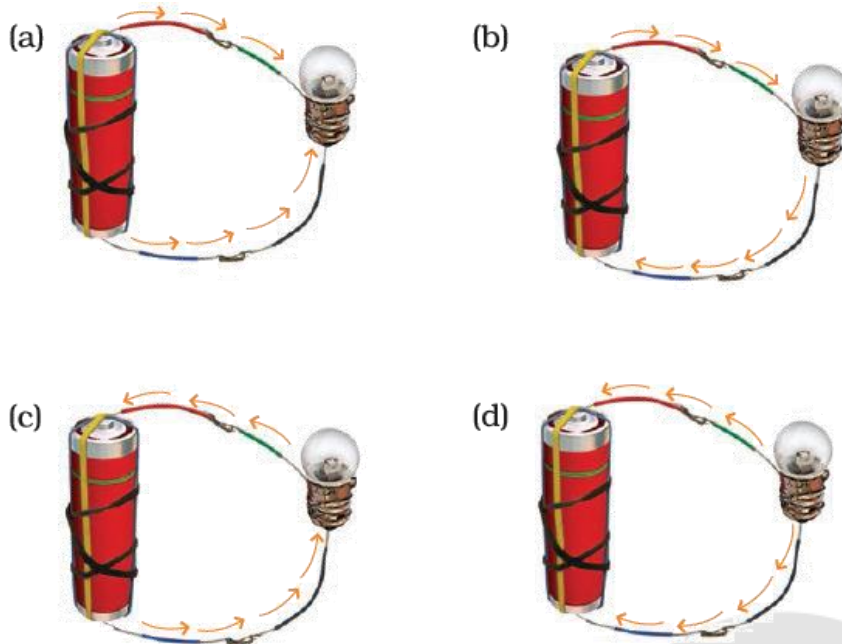DATE: _____/_____/_____

NAME: _____

PHYSICS

(1) The distance between Pune and Chennai is usually expressed in units of
(a) decametre   (b) metre   (c) centimetre   (d) kilometre
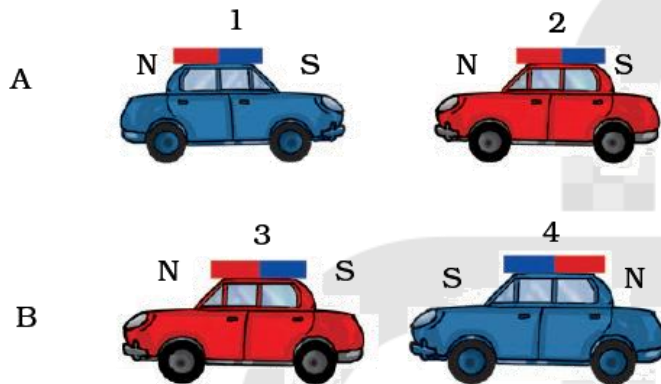
(2) Observe the picture given in Fig. carefully.

A patch of light is obtained at B, when the torch is lighted as shown. Which of the following is kept at position A to get this patch of light?
(a) A wooden board   (b) A glass sheet
(c) A mirror   (d) A sheet of white paper

(3) Choose from the options a, b, c and d given in Fig., the figure which shows the correct direction of current.

(4) Observe the pictures A and B given in Fig., carefully.

Which of the following statement is correct for the above given pictures?

(a) In A, cars 1 and 2 will come closer and in B, cars 3 and 4 will come closer

(b) In A, cars 1 and 2 will move away from each other and in B, cars 3 and 4 will move away

(c) In A, cars 1 and 2 will move away and in B, 3 and 4 will come closer to each other

(d) In A, cars 1 and 2 will come closer to each other and in B, 3 and 4 will move away from each other

(5) A marble tile would feel cold as compared to a wooden tile on a winter morning, because the marble tile

(a) is a better conductor of heat than the wooden tile

(b) is polished while wooden tile is not polished

(c) reflects more heat than wooden tile

(d) is a poor conductor of heat than the wooden tile

(6) Which of the following cannot be used for measurement of time?
(a) A leaking tap
(b) Simple pendulum
(c) Shadow of an object during the day
(d) Blinking of eyes

(7) Samarth and Sakshi were given one mirror each by their teacher. Samarth found his image to be erect and of the same size whereas Sakshi found her image erect and smaller in size. This means that the mirrors of Samarth and Sakshi are, respectively
(a) plane mirror and concave mirror
(b) concave mirror and convex mirror
(c) plane mirror and convex mirror
(d) convex mirror and plane mirror

CHEMISTRY

(8) The rearing of silkworms for obtaining silk is called
(a) cocoon   (b) silk   (c) sericulture   (d) silviculture

(9) Pick the change that can be reversed from the following
(a) Cutting of trees   (b) Melting of ghee
(c) Burning of candle   (d) Blooming of flower

(10) Products of a neutralisation reaction are always
(a) an acid and a base.   (b) an acid and a salt.
(c) a salt and water.   (d) a salt and a base

(11) Which of the following is an acid-base indicator?
(a) Vinegar   (b) Lime water   (c) Turmeric   (d) Baking soda

(12) Which of the following is not a natural fibre?
(a) Cotton   (b) Jute   (c) Nylon   (d) Flax

(13) You might have observed the preparation of ghee from butter and cream at home. Which method(s) can be used to separate ghee from the residue?
(i) Evaporation   (ii) Decantation   (iii) Filtration   (iv) Churning
Which of the following combination is the correct answer?
(a) (i) and (ii)   (b) (ii) and (iii)   (c) (ii) and (iv)   (d) (iv) only

(14) A solution changes the colour of turmeric indicator from yellow to red. The solution is
(a) basic   (b) acidic
(c) neutral   (d) either neutral or acidic

BIOLOGY

(15) During day time plant absorb
(a) oxygen   (b) nitrogen   (c) carbon dioxide (d) none of these

(16) Name the organ of the body is which the blood is oxygenated?
(a) Heart   (b) Lungs   (c) Liver   (d) Pancreas

(17) In which type of reproduction new plants are obtained without production of seeds:
(a) Asexual reproduction   (b) sexual reproduction
(c) Both (a) and (b)   (d) None

(18) Unisexual flowers have:
(a) Only male parts   (b) Only female parts
(c) Both on same flower   (d) Both (a) and (b)

(19) Vascular tissues that transport water and nutrients in plants are called _____.
(a) veins   (b) phloem   (c) xylem   (d) root hair

(20) Soil fertility is reduced by
(a) crop rotation   (b) nitrogen fixing bacteria
(c) decaying organic matter   (d) intensive agriculture

(21) Deforestation generally decreases.
(a) Rain fall   (b) Soil erosion   (c) Drought   (d) Global warming
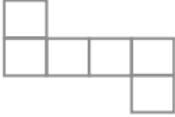
MATHEMATICS

(22) 1 billion is equal to
(a) 100 millions   (b) 10 millions   (c) 1000 lakhs   (d) 10000 lakhs

(23) If a bicycle wheel has 48 spokes, then the angle between a pair of two consecutive spokes is
(a) $\left(5\dfrac{1}{2}\right)$ (b) $\left(7\dfrac{1}{2}\right)$ (c) $\left(\dfrac{2}{11}\right)$ (d) $\left(\dfrac{2}{15}\right)$

(24) The greatest integer lying between −10 and −15 is
(a) −10   (b) −11   (c) −15   (d) −14

(25) Which of the following fractions is the greatest?
(a) $\dfrac{5}{7}$ (b) $\dfrac{5}{6}$ (c) $\dfrac{5}{9}$ (d) $\dfrac{5}{8}$

(26) Following figures are formed by joining six unit squares. Which figure has the smallest perimeter in Fig.?
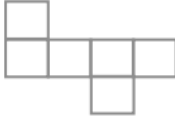
(i)   (ii)   (iii)   (iv)

(a) (ii)   (b) (iii)   (c) iv   (d) (i)

(27) 8 more than three times the number x can be represented as
(a) 8 + x + 3   (b) 3x − 8   (c) 3x + 8   (d) 8x + 3

(28) A picture is 60 cm wide and 1.8 m long. The ratio of its width to its perimeter in lowest form is
(a) 1 : 2   (b) 1 : 3   (c) 1 : 4   (d) 1 : 8

(29) Which of the following angles cannot be constructed using ruler and compasses?
(a) 75°   (b) 15°   (c) 135°   (d) 85°

(30) $[(-10) \times (+9)] + (-10)$ is equal to

(a) 100   (b) –100   (c) –80   (d) 80

(31) The decimal expression for 8 rupees 8 paise (in Rupees) is

(a) 8.8   (b) 8.08   (c) 8.008   (d) 88.0

(32) The mode of the data 23, 26, 22, 29, 23, 29, 26, 29, 22, 23 is

(a) 23 and 29   (b) 23 only   (c) 29 only   (d) 26 only

(33) –1 is not a solution of the equation

(a) x + 1 = 0   (b) x – 1 = 2   (c) 2y + 3 = 1   (d) 2p + 7 = 5

(34) The angles x – 10º and 190º – x are

(a) interior angles on the same side of the transversal

(b) making a linear pair

(c) complementary

(d) supplementary

(35) Gayatri income is Rs 1,60,000 per year. She pays 15% of this as house rent and 10% of the remainder on her child's education. The money left with her is

(a) Rs 136000   (b) Rs 120000   (c) Rs 122400   (d) Rs 14000

MENTAL ABILITY

(36) Complete the series 4, 9, 16, 25, ...

(a) 32   (b) 42   (c) 55   (d) 36

(37) Find the wrong term in the series 3, 8, 15, 24, 34, 48, 63.

(a) 15   (b) 12   (c) 34   (d) 63

(38) In each of the following questions, four words are given. Which of them will be the last if all of them are arranged alphabetically as in a dictionary?

(a) Praise   (b) Practical   (c) Prank   (d) Prayer

(39) In a code language, if TRAINS is coded as RTIASN, how will FLOWER be coded in the same language ?

(a) LFOWER   (b) LFWORE   (c) WORELF   (d) ERFLOW

(40) In a certain language, the word 'REJECT' is written as SGMIHZ'. How will the word 'ACCEPT' be written ?

(a) BEFIUV   (b) BEFMUZ   (c) BEEIUZ   (d) BEFIUZ

(41) Deepa moved a distance of 75 metres towards the north. She then turned to the left turned to the right at an angle of 45°. In which direction was she moving finally ?

(a) North-east   (b) North-west   (c) South   (d) South-east

(42) Johnson left for his office in his car. He drove 15 km towards north and then 10 km towards west. He then turned to the south and covered 5 km. Further, he turned to the east and moved 8 km. Finally, he turned right and drove 10 km. How far and in which direction is he from his starting point?

(a) 2 km west   (b) 5 km East   (c) 3 km north   (d) 6 Km south

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