

Practice Test - 3

Class - VIII

(For students moving to Class IX)

SUBJECTS

Science

- Physics
- Chemistry
- Biology

Mathematics

Mental Ability

For More information

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ISAT Practice Test

3

Time: 1 Hr 45 Min

Maximum Marks: 168

CLASS-8

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) Consider the list of terms given below

- (i) Tsunami (iii) Floods
(ii) Landslide (iv) Lightning

Earthquakes can cause

- (a) (i), (ii) & (iii) (b) (ii) & (iv) (c) (ii), (iii) & (iv) (d) (iii) & (iv)

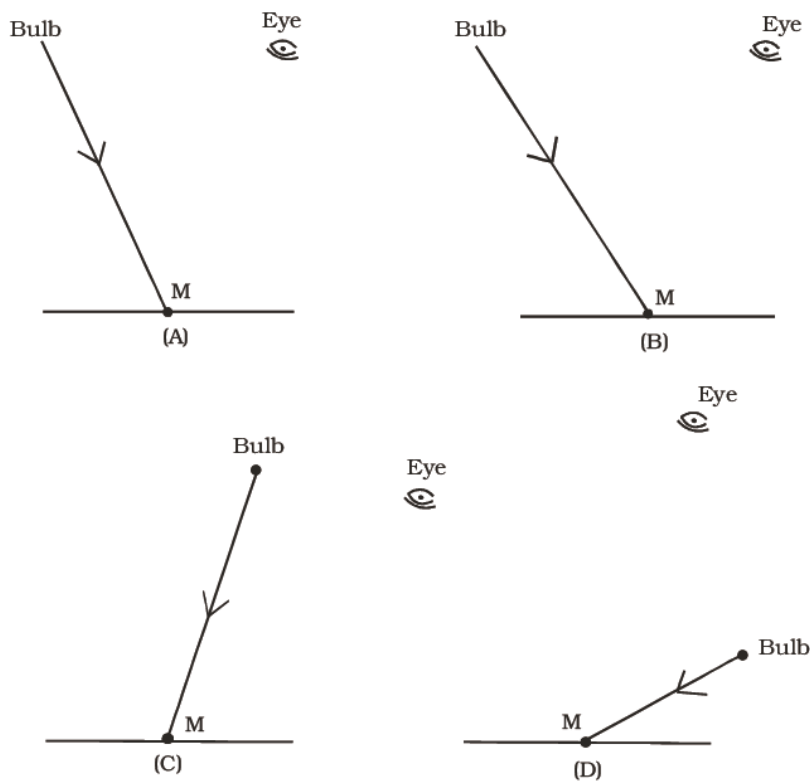
(2)



In Fig., a boy is shown pushing the box from right to left. The force of friction will act on the box

- (a) from right to left (\leftarrow)
(b) from left to right (\rightarrow)
(c) vertically downwards (\downarrow)
(d) vertically upwards (\uparrow)

- (3) A tiny mirror M is fixed on a piece of cardboard placed on a table. The cardboard is illuminated by light from a bulb. The position of eye with respect to position of bulb is shown in Fig., as A, B, C and D. In which position mirror will be visible?



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

- (4) In the circuit shown in Fig.11.2, when the circuit is completed, the hammer strikes the gong. Which of the following force is responsible for the movement of hammer?



- (a) gravitational force alone (b) electrostatic force alone
(c) magnetic force alone (d) frictional force alone
- (5) Which of the following metals is used in electroplating to make objects appear shining?
(a) iron (b) copper (c) chromium (d) aluminium
- (6) 1 hertz is equal to
(a) 1 vibration per minute (b) 10 vibrations per minute
(c) 60 vibrations per minute (d) 600 vibrations per minute

- (7) The change in seasons on the earth occurs because
- (a) the distance between the earth and the sun is not constant.
 - (b) the axis of rotation of the earth is parallel to the plane of its orbit.
 - (c) the axis of rotation of the earth is perpendicular to the plane of its orbit.
 - (d) the axis of rotation of the earth is tilted with respect to the plane of its orbit.

CHEMISTRY

- (8) Arrange cotton, silk, wool and nylon in decreasing order of their water absorption capacity.
- (a) nylon > cotton > wool > silk
 - (b) nylon > cotton > silk > wool
 - (c) wool > cotton > silk > nylon
 - (d) cotton > wool > silk > nylon
- (9) Which of the following non-metal is a liquid?
- (a) Sulphur
 - (b) Phosphorus
 - (c) Carbon
 - (d) Bromine
- (10) Which of the following is thermosetting plastics
- (a) PVC
 - (b) Nylon
 - (c) Melamine
 - (d) Terylene
- (11) Which of the following is a fossil fuel.
- (a) Coal
 - (b) Petroleum
 - (c) Natural gas
 - (d) All
- (12) Natural gases preferred over other fossil fuels:
- (a) Easy to transport
 - (b) Does not cause pollution
 - (c) both (a) and (b)
 - (d) None of these
- (13) An indicator that turns reddish brown when dissolved in soap solution is-
- (a) litmus
 - (b) china rose
 - (c) turmeric powder
 - (d) None of these
- (14) Which disease is most common among the workers of sericulture industry?
- (a) Cancer & Skin
 - (b) Respiratory & Skin
 - (c) Cancer & T.B.
 - (d) None of these

BIOLOGY

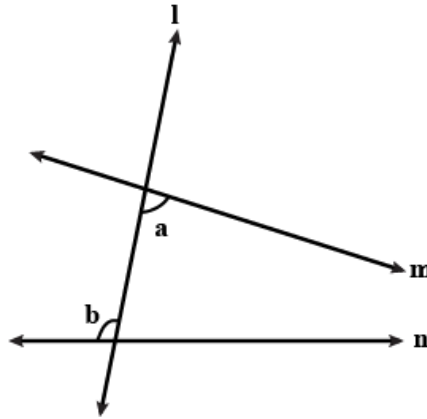
- (15) Which of the following is not true for fertilisers?
- (a) They increase the yield.
 - (b) Their excessive use disturbs the balance of nutrients in soil.
 - (c) They are generally used in small quantity.
 - (d) They are environment friendly.
- (16) The disease caused by a protozoan which is a parasite_____.
- (a) dengue
 - (b) malaria
 - (c) polio
 - (d) measles
- (17) Plasma membrane is
- (a) Permeable
 - (b) selectively permeable
 - (c) Impermeable
 - (d) all of the above
- (18) Which of the following is not a unicellular organism?
- (a) Yeast
 - (b) Paramecium
 - (c) Hydra
 - (d) Amoeba

- (19) Cells that have a high energy requirement generally have many
 (a) Ribosomes (b) Nucleus (c) Mitochondria (d) Chloroplast
- (20) Nucleus is the region where _____ is/are located
 (a) Genetic material (b) Proteins
 (c) Pigments (d) Nutrients
- (21) In the absence of which of the following will photosynthesis not occur in leaves?
 (a) Guard cells (b) Chlorophyll
 (c) Vacuole (d) Space between cells

MATHEMATICS

- (22) The additive inverse of $\frac{-7}{19}$ is
 (a) $\frac{-7}{19}$ (b) $\frac{7}{19}$ (c) $\frac{19}{7}$ (d) $\frac{-19}{7}$
- (23) A perfect square number having n digits where n is even will have square root with
 (a) n + 1 digit (b) $\frac{n}{2}$ digit (c) $\frac{n}{3}$ digit (d) $\frac{n+1}{2}$ digit
- (24) If m is the cube root of n, then n is
 (a) m^3 (b) \sqrt{m} (c) $\frac{m}{3}$ (d) $\sqrt[3]{m}$
- (25) Linear equation in one variable has
 (a) only one variable with any power.
 (b) only one term with a variable.
 (c) only one variable with power 1.
 (d) only constant term.
- (26) Arpita's present age is thrice of Shilpa. If Shilpa's age three years ago was x. Then Arpita's present age is
 (a) $3(x - 3)$ (b) $3x + 3$ (c) $3x - 9$ (d) $3(x + 3)$
- (27) ABCD is a quadrilateral in which AB = 5 cm, CD = 8 cm and the sum of angle A and angle D is 180° . What is the name of this quadrilateral?
 (a) Parallelogram (b) Trapezium (c) Rhombus (d) Can not be determined
- (28) How many non-overlapping triangles can we make in a n-gon (polygon having n sides), by joining the vertices?
 (a) n - 1 (b) n - 2 (c) n - 3 (d) n - 4
- (29) If a% is the discount per cent on a marked price x, then discount is
 (a) $\frac{x}{a} \times 100$ (b) $\frac{a}{x} \times 100$ (c) $x \times \frac{a}{100}$ (d) $\frac{100}{x \times a}$
- (30) The marked price of an article is Rs 80 and it is sold at Rs 76, then the discount rate is
 (a) 5% (b) 95% (c) 10% (d) appx. 11%

- (31) $\frac{4}{5}$ of 5 kg apples were used on Monday. The next day $\frac{1}{3}$ of what was left was used.
Weight (in kg) of apples left now is
(a) $\frac{2}{7}$ (b) $\frac{1}{14}$ (c) $\frac{2}{3}$ (d) $\frac{4}{21}$
- (32) $(-43) \times (-99) + 43$ is equal to
(a) 4300 (b) -4300 (c) 4257 (d) -4214
- (33) If p squares of each side 1 mm makes a square of side 1 cm, then p is equal to
(a) 10 (b) 100 (c) 1000 (d) 10000
- (34) In Fig., a and b are



- (a) alternate exterior angles (b) corresponding angles
(c) alternate interior angles (d) vertically opposite angles
- (35) In standard form 72 crore is written as
(a) 72×10^7 (b) 72×10^8 (c) 7.2×10^8 (d) 7.2×10^7

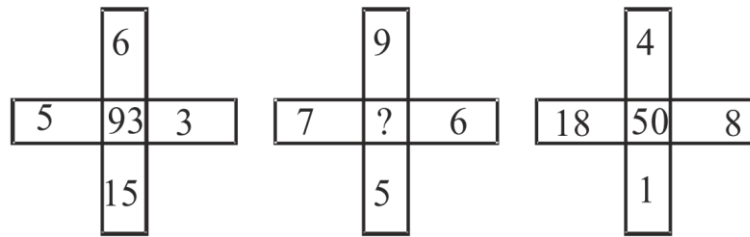
MENTAL ABILITY

- (36) Choose the missing term out of the given alternatives.
2A11, 4D13, 12G17, ?
(a) 36I19 (b) 36J21 (c) 48J21 (d) 48J23
- (37) In each of the following questions, one term is wrong. Find out the wrong term.
1, 5, 5, 9, 7, 11, 11, 15, 12, 17
(a) 11 (b) 12 (c) 17 (d) 15
- (38) Arrange the given words in the sequence in which they occur in the dictionary and then choose the correct sequence
1. Wrinkle 2. Wriggle 3. Writhe 4. Wretch 5. Wrath
(a) 4, 5, 1, 2, 3 (b) 5, 4, 2, 1, 3 (c) 4, 2, 5, 1, 3 (d) 5, 2, 1, 3, 4
- (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) BEH (b) CFI (c) DGJ (d) EHL
- (40) If COME is code as BNLD then DANGER will be coded as
(a) EBOHIS (b) CZMGER (c) CZMFDQ (d) DANFDQ

(41) Ankit, Bansi, Rohan and Sohan are friends. They play cards. Ankit and Bansi become partners. Sohan faces North. If Ankit faces towards West, then who faces towards South?

- (a) Bansi (b) Rohan (c) Sohan (d) Data is inadequate

(42) Find the missing term in the second figure out of the given option given below the figure.



(a) 15

(b) 19

(c) 27

(d) 89



CONGRATULATIONS
ISAT 2022
Toppers



Adya Sharma



Kavya Aga



krisha Kothiya



Hiya shah



Vandit Kotecha

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CLASS-8-ISAT-PRACTISE TEST-3-ANSWER KEY

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