ISAT Practice Test 1

Time: 1 Hours
Maximum Marks: 168

CLASS-8

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) Morning star is the name given to
(a) pole star   (b) star Sirius   (c) planet Jupiter   (d) planet Venus

(2) A list of mediums is given below.
(i) wood   (iii) air   (ii) water   (iv) vacuum
In which of these mediums can sound travel?
(a) i & ii only   (b) i, ii & iii only   (c) iii & iv only   (d) ii, iii & iv only

(3) An electroscope is a device which is used to find if an object is
(a) charged   (b) magnetic   (c) free of cracks   (d) hot

(4) Part of the eye which controls the light entering is called
(a) iris   (b) cornea   (c) lens   (d) retina

(5) Whenever the surfaces in contact tend to move or move with respect to each other, the force of friction comes into play
(a) only if the objects are solid.
(b) only if one of the two objects is liquid.
(c) only if one of the two objects is gaseous.
(d) irrespective of whether the objects are solid, liquid or gaseous.

(6) In Fig, two boys A and B are shown applying force on a block. If the block moves towards the right, which one of the following statements is correct?

A.   B.

(a) Magnitude of force applied by A is greater than that of B.
(b) Magnitude of force applied by A is smaller than that of B.
(c) Net force on the block is towards A.
(d) Magnitude of force applied by A is equal to that of B.

(7) An electric current can produce
(a) heating effect only.
(b) chemical effect only.
(c) magnetic effect only.
(d) chemical, heating, and magnetic effects.

CHEMISTRY

(8) Which of the following is not a synthetic fibre?
(a) Nylon   (b) Wool   (c) Rayon   (d) PVC

(9) Acids are…………..in taste while bases are………….in taste.
(a) sweet, salty   (b) sweet, sour   (c) sour, salty   (d) sour, bitter

(10) Which of the following properties is generally not shown by metals?
(a) Ductility   (b) Sonorous   (c) Dullness   (d) Electrical conduction

(11) Which of the following is a synthetic polymer?
(a) Starch   (b) Silk   (c) Protein   (d) Polystyrene

(12) Which of the following will be suitable for coating dress materials of fire-men?
(a) Nylon   (b) polyester   (c) Melamine   (d) Acrylic

(13) Which of the following is a main constituent of natural gas?
(a) Methane   (b) Ethane   (c) Propane   (d) Butane

(14) Which of the following is a base and not an alkali?
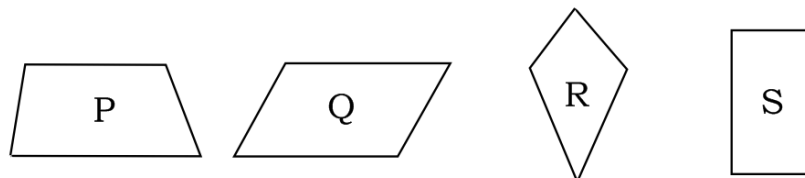(a) NaOH   (b) KOH   (c) $Fe(OH)_3$ (d) None of these

BIOLOGY

(15) Which of the following reproduces only inside a host cell?
(a) Bacteria   (b) Virus   (c) Amoeba   (d) Fungus.

(16) Aquatic animals in which fertilisation occurs in water are said to be:
(a) viviparous without fertilisation.
(b) oviparous with external fertilisation.
(c) viviparous with internal fertilisation.
(d) oviparous with internal fertilisation.

(17) After fertilisation, the resulting cell which gives rise to a new individual is the
(a) embryo   (b) ovum   (c) foetus   (d) zygote

(18) A disease in human beings caused by virus is _____.
(a) typhoid   (b) influenza   (c) dysentry   (d) cholera

(19) The gas released during fermentation of ethanol is
(a) oxygen   (b) carbon dioxide   (c) nitrogen   (d) sulphur dioxide

(20) Fermentation is carried out in the presence of which gas
(a) oxygen   (b) carbon dioxide   (c) nitrogen   (d) None of the above

(21) Propagation of ginger is generally done using
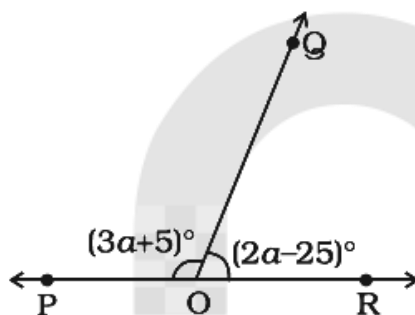(a) seed   (b) stem (rhizome)   (c) root   (d) leaf

MATHEMATICS

(22) Which of the following is not true?
(a) $\dfrac{2}{3}+\dfrac{5}{4}=\dfrac{5}{4}+\dfrac{2}{3}$ (b) $\dfrac{2}{3}-\dfrac{5}{4}=\dfrac{5}{4}-\dfrac{2}{3}$ (c) $\dfrac{2}{3}\times\dfrac{5}{4}=\dfrac{5}{4}\times\dfrac{2}{3}$ (d) $\dfrac{2}{3}\div\dfrac{5}{4}=\dfrac{2}{3}\times\dfrac{4}{5}$

(23) The one's digit of the cube of 23 is
(a) 6   (b) 7   (c) 3   (d) 9

(24) Given that $\sqrt{4096}=64,$ the value of $\sqrt{4096}+\sqrt{40.96}$ is
(a) 74   (b) 60.4   (c) 64.4   (d) 70.4

(25) If $3x - 4 (64 - x) = 10$, then the value of x is
(a) −266   (b) 133   (c) 66.5   (d) 38

(26) Which of the following is a linear expression:
(a) $x^2 + 1$ (b) $y + y^2$ (c) 4   (d) $1 + z$

(27) The number of diagonals in a polygon of n sides is
(a) $\dfrac{n(n-1)}{2}$ (b) $\dfrac{n(n-2)}{2}$ (c) $\dfrac{n(n-3)}{2}$ (d) $n(n-3)$

(28) Which of the following figures satisfy the following property?
Has two pairs of congruent adjacent sides.

(a) P   (b) Q   (c) R   (d) S

(29) A shirt with marked price Rs 800 was sold at Rs 680. The rate of discount allowed on the shirt is
(a) 10%   (b) 15%   (c) 20%   (d) 25%

(30) If the cost price of 10 shirts is equal to the selling price of 8 shirts, then which of the following is true for the transaction?

(a) Profit of 25%   (b) Loss of 25%   (c) Profit of 20%   (d) Loss of 20%

(31) A ribbon of length $5\frac{1}{4}$ m is cut into small pieces each of length $\frac{3}{4}$ m. Number of pieces will be:

(a) 5   (b) 6   (c) 7   (d) 8

(32) Water level in a well was 20 m below ground level. During rainy season, rain water collected in different water tanks was drained into the well and the water level rises 5 m above the previous level. The wall of the well is 1m 20 cm high and a pulley is fixed at a height of 80 cm. Raghu wants to draw water from the well. The minimum length of the rope that he can use is

(a) 17 m   (b) 18 m   (c) 96 m   (d) 97 m

(33) If $1m^2 = x\ mm^2$, then the value of x is

(a) 1000   (b) 10000   (c) 100000   (d) 1000000

(34) If Fig., POR is a line. The value of a is

(a) 40°   (b) 45°   (c) 55°   (d) 60°

(35) If $2^{1998} - 2^{1997} - 2^{1996} + 2^{1995} = K.2^{1995}$, then the value of K is

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

MENTAL ABILITY

(36) Complete the given series 4, 9, 13, 22, 35..........

(a) 57   (b) 70   (c) 63   (d) 75

(37) Complete the given series 66, 36, 18, ...

(a) 9   (b) 3   (c) 6   (d) 8

(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) Nature   (b) Native   (c) Narrate   (d) Nascent

(39) In a certain code language, the word 'PARTNER' is coded as 'TRAPREN', how will 'FOUNDER' be coded in the same language.

(a) NUOFDER   (b) NUOFRED   (c) FOUNRED   (d) OFNUEDR

(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) You go North, turn right, then right again and then go to the left. In which direction are you now?

(a) North   (b) South   (c) East   (d) West

(42) A man leaves for his office from his house. He walks towards East. After moving a distance of 20 m, he turns south and walks 10 m. Then he walks 35 m towards the west and further 5 m towards the North. He then turns towards east and walks 15 m. What is the straight distance (in metres) between his initial and final positions?

(a) 0   (b) 5   (c) 10   (d) Cannot be determined

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