

Practice Test - 1

Class - IX

(For students moving to Class X)



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ISAT Practice Test

Time: 2 Hour

Maximum Marks: 336

CLASS-9

General Instructions

- 1. There are a total of 84 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

			DA	TE:/	/				
NA.	ME:								
]	PHYSICS						
(1)	Morning star is	the name given to)						
	(a) pole star		(b) star Sirius						
	(c) planet Jupite	er	(d) planet Venus						
(2)	A list of medium	ns is given below.							
	(i) wood (iii) air								
	(ii) water (iv) vac	cuum							
	In which of the	se mediums can so	ound travel?						
	(a) i & ii only		(b) i, ii & iii only						
	(c) iii & iv only		(d) ii, iii & iv only	7					
(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.								
					Page No: 1				

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



- (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.
- When a body falls freely towards the earth, then its total energy (8)
 - (a) increases

(b) decreases

(c) remains constant

(d) first increases and then decreases

- (9) Note is a sound
 - (a) of mixture of several frequencies (b) of mixture of two frequencies only
 - (c) of a single frequency
- (d) always unpleasant to listen
- (10)Two objects of different masses falling freely near the surface of moon would
 - (a) have same velocities at any instant
 - (b) have different accelerations
 - (c) experience forces of same magnitude
 - (d) undergo a change in their inertia
- (11) Which of the following statement is not correct for an object moving along a straight path in an accelerated motion?
 - (a) Its speed keeps changing
 - (b) Its velocity always changes
 - (c) It always goes away from the earth
 - (d) A force is always acting on it
- A particle is moving in a circular path of radius r. The displacement after half a (12)circle would be:
 - (a) Zero
- (b) πr
- (c) 2 r
- (d) $2\pi r$

(13)	Slope of a velocity – time graph gives								
	(a) the distance		(b) the displacem	nent					
	(c) the acceleration	on	(d) the speed						
(14)	Suppose a boy i	s enjoying a ride	on a merry-go-ro	und which is moving with a					
	constant speed of	f 10 m s ⁻¹ . It impli	es that the boy is						
	(a) at rest		(b) moving with r	no acceleration					
	(c) in accelerated	motion	(d) moving with u	aniform velocity					
		СНІ	EMISTRY						
(15)	The hoiling point		This temperature:	is equivalent to					
(13)	(a) -193 K	(b) 193 K	(c) 353 K	(d) – 353 K					
(16)	· /	` '	wear clothes mad	· /					
(10)	(a) nylon	(b) polyesters		(d) silk					
(17)	(, 0	` , = •	(c) cotton	(d) Siik					
(17)	Rate of evaporation	O							
	` ' -	l of diameter 25 cr							
	` ' -	l of diameter 30 cr							
	. , =	l of diameter 27.5	cm.						
41.0	(d) an open vesse	l of radius 26 cm							
(18)	Insulators have		(4) 4 4 4						
	(a) low resistance		(b) high resistant						
	(c) high conducta		(d) all of the above	ve					
(19)		is stored in kerose							
	• • =	(b) Magnesium	` '	(d) Zinc					
(20)	J	colloidal solution							
	(a) gas in liquid	(b) liquid in liquid	d (c) solid in liquid	(d) gas in solid					
(21)	The distillation o	f crude petroleum	ı to obtain various	commercially useful fraction					
	is called:								
	(a) compression	(b) refining	(c) mining	(d) none of these					
(22)	While determining	g the boiling poin	nt of water, the the	ermometer should be kept in					
	such a way that i	ts bulb							
	(a) remains dipped in water								
	(b) remains just a	above the surface o	of water						
	(c) in touch with	the bottom of cont	ainer						
	(d) remains near	the cork of the cor	ntainer						
(23)	What kind of combustion is undergone by ignition of a cracker?								
	(a) Explosive com	bustion	(b) Spontaneous	combustion					
	(c) Rapid combus	tion	(d) Slow combust	tion					
(24)	Which zone produ	uces yellow light d	uring burning of c	andle?					
	(a) Non-Luminous zone		(b) Dark zone						
	(c) Luminous zon	e	(d) Blue zone						
(25)	Bauxite is an ore	of							
	(a) boron	(b) aluminium	(c) barium	(d) chromium					
				Page No: 3					

(26)	Flax is a kind of							
	(a) animal skin	(b) synthetic fibre	e (c) plant fibre	(d) none of these				
(27)	Bakelite is a/an:							
	(a) semi conducto	r	(b) Conductor					
	(c) insulator		(d) None of the a	bove				
(28)	The more effective	_						
	(a) water at 0°C	(b) water at 100°	C(c) ice at 0°C	(d) gas at 0°C				
		BI	OLOGY					
(29)			d materials. Wha	t type of epithelial cells are				
	responsible for th		(1-) (0-1	V11t				
	` ′ -	amous epithelium	` ' -					
(20)	(c) Spindle fibres	- and manina	(d) Cuboidal epit					
(30)	among the follow		a move your organ	ns like hands, legs etc. Which				
	<u> </u>	•	ull the ligement to	move the hones				
		les contract and pu les contract and pu						
	` '	_						
	` '	les contract and p	_					
(31)	Meristematic tiss	les contract and p	un the tendon to i	nove the bones				
(01)		permanent	(b) not limited to	certain regions				
	(c) localised and (=	(d) growing in vo	•				
(32)	` '	•	. , .					
(32)	(a) typhoid	an beings caused (b) influenza						
(33)	. ,	• •	. , .	ociation in lichens are				
(33)	(a) fungus and pr		(b) alga and bact					
	` ' -	protozoa	` ,					
(34)		ed by a protozoan						
(37)	(a) dengue	(b) malaria	(c) polio	(d) measles				
(35)	Voluntary muscle	` '	(c) polio	(d) incasies				
(00)	(a) alimentary car		(b) limbs					
	(c) iris of the eye	iai	(d) bronchi of lu	age				
(36)	` ,	t present in the ph	` '	150				
(00)	(a) companion cel	-	(b) phloem fibres					
	(c) phloem parend		(d) sieve tubes	,				
(37)	` '	•	(a) sieve tabes					
(01)	Find out the correct sentence (a) Enzymes packed in Lysosomes are made through RER (rough endoplasmic							
	reticulum)							
	•	olasmic reticulum	and smooth end	loplasmic reticulum produce				
	lipid and protein		and smooth the	opiasime reneurum produce				
			d with the destmin	tion of plasmamembrane				
	· · · =	esent inside the n		tion of plasmamembrane				
	juj nuciculu is Di	บอบมน มมอมนับ นมับ III	ucicobiasili di cuka	ณ ขบนป มนปเปนจ				

(38)	Which cell organ a cell?	nelle plays a cruc	cial role in detoxify	ing many poisons and drugs ir					
	(a) Golgi apparat	าเร	(b) Lysosomes						
	, , , ,	plasmic reticulur	` , •						
(39)	Plasmolysis in a	_	` '						
` '	=	=	nembrane in hypot	conic medium					
		cytoplasm in hyp							
	(c) shrinkage of 1								
	(d) none of them	-							
(40)	` '		orokaryotes are als	o known as					
(- /	(a) nucleus	-	(c) nucleic acid						
(41)	` '	` '	` '	e the set that has an incorrec					
(/	combination.	8							
		, sperm duct, per	nis						
	• • -	n, egg, oviduct, ut							
	(c) sperm, oviduo								
	• • =	g, oviduct, uterus	3						
(42)			nt of fertilised egg	takes place in the					
(,	(a) ovary	(b) testis							
	(4) 5 (41)	(3) 20022	(6) 3714460	(d) atterds					
		<u>MA</u>	THEMATICS						
(43)	Which of the foll	owing is not equa	al to $\left[\left(\frac{5}{6} \right)^{\frac{1}{5}} \right]^{-\frac{1}{6}}$?						
	(a) $(5/6)^{1/5-1/6}$	(b) 1/[(5/6) ^{1/5}]	$^{1/6}$ (c) $(6/5)^{1/30}$	(d) $(5/6)^{-1/30}$					
(44)	Decimal represen	ntation of a ratio	^{1/6} (c) (6/5) ^{1/30} nal number canno	t be					
	(a) terminating		(b) non-termina						
	` '	ing repeating		ating non-repeating					
(45)	Between two rati	ional numbers	, ,						
•	(a) there is no ra								
	(b) there is exactly one rational number								
	` '	nitely many ratio							
	` '	•	rs and no irrationa	al numbers					
(46)	. ,								
` '		2 2	2						
	$(a) x^2 - 2$	(b) $\sqrt{2y} = 1$	(c) $x^2 + \frac{3x^{\frac{3}{2}}}{\sqrt{x}}$	(d) $\frac{x-1}{x}$					
	$\frac{1}{2} - \frac{1}{x^2}$	(b) $\sqrt{2}X - 1$	(c) $x + \sqrt{x}$	$\frac{(u)}{x+1}$					
(47)			$x^3 + 0x^5 + 5x + 7$ is						
	(a) 4	(b) 5	(c) 3	(d) 7					

(48) Degree of the zero polynomial is

(a) 0

(b) 1

(c) Any natural number

(d) Not defined

(49) Point (-10, 0) lies

(a) on the negative direction of the x-axis

(b) on the negative direction of the y-axis

(c) in the third quadrant

(d) in the fourth quadrant

Abscissa of all the points on the x-axis is (50)

(a) 0

(b) 1

(c) 2

(d) any number

(51)Point (0, -7) lies

(a) on the x-axis

(b) in the second quadrant

(c) on the y-axis

(d) in the fourth quadrant

The equation 2x + 5y = 7 has a unique solution, if x, y are: (52)

(a) Natural numbers

(b) Positive real numbers

(c) Real numbers

(d) Rational numbers

Any solution of the linear equation 2x + 0y + 9 = 0 in two variables is of the form (53)

(a)
$$\left(-\frac{9}{2}, m\right)$$

(b) $\left(n, -\frac{9}{2} \right)$ (c) $\left(0, -\frac{9}{2} \right)$

(54)The number of dimensions, a surface has:

(a) 1

(b) 2

(c) 3

(d) 0

(55)If one of the angles of a triangle is 130°, then the angle between the bisectors of the other two angles can be

(a) 50°

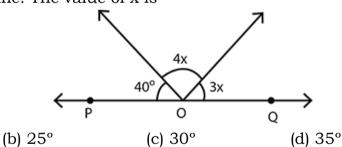
(a) 20°

(b) 65°

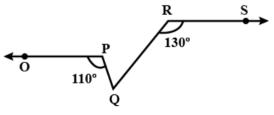
(c) 145°

(d) 155°

(56) In Fig., POQ is a line. The value of x is



(57) In Fig., if OP | |RS, \angle OPQ = 110° and \angle QRS = 130°, then \angle PQR is equal to

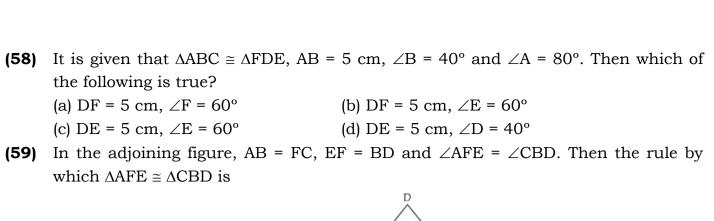


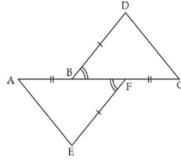
(a) 40°

(b) 50°

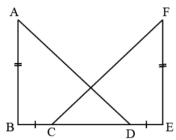
(c) 60°

(d) 70°





- (a) SAS
- (b) ASA
- (c) SSS
- (d) AAS
- (60) In the adjoining figure, AB \perp BE and FE \perp BE. If AB = FE and BC = DE, then



- (a) $\triangle ABD \cong \triangle EFC$ (b) $\triangle ABD \cong \triangle FEC$ (c) $\triangle ABD \cong \triangle ECF$ (d) $\triangle ABD \cong \triangle CEF$
- (61) An isosceles right triangle has area 8 cm². The length of its hypotenuse is
 - (a) $\sqrt{32}$ cm
- (b) $\sqrt{16}$ cm
- (c) $\sqrt{48}$ cm
- (d) $\sqrt{24}$ cm
- (62) The mean of five numbers is 30. If one number is excluded, their mean becomes 28. The excluded number is:
 - (a) 28
- (b) 30
- (c) 35
- (d) 38

- **(63)** The class mark of the class 90–120 is:
 - (a) 90
- (b) 105
- (c) 115
- (d) 120
- **(64)** In a frequency distribution, the mid value of a class is 10 and the width of the class is 6. The lower limit of the class is:
 - (a) 6
- (b) 7
- (c) 8
- (d) 12
- (65) The digit in the tens place of a two digit number is 3 more than the digit in the units place. Let the digit at units place be b. Then the number is
 - (a) 11b + 30
- (b) 10b + 30
- (c) 11b + 3
- (d) 10b + 3
- (66) If two adjacent angles of a parallelogram are $(5x 5)^{\circ}$ and $(10x + 35)^{\circ}$, then the ratio of these angles is
 - (a) 1:3
- (b) 2:3
- (c) 1:4
- (d) 1:2
- (67) Length of one of the diagonals of a rectangle whose sides are 10 cm and 24 cm is
 - (a) 25 cm
- (b) 20 cm
- (c) 26 cm
- (d) 3.5 cm

(68)	Find multiplicati	ve inverse of $\left(-\frac{5}{9}\right)$) ⁻⁹⁹ is	
		(b) $\left(\frac{5}{9}\right)^{99}$		(d) $\left(\frac{9}{5}\right)^{99}$
(69)				if is sliced into 1 cubic centimetre Il have exactly one of their faces
	_	(b) 42	(c) 54	(d) 142
(70)	Number of factor	s of $(a + b)^2$ is		
	(a) 4	(b) 3	(c) 2	(d) 1
		MEN'	TAL ABILITY	,
(71)	Complete the ser	ries: 13, 24, 46, 9	90, 178,	
	(a) 354	(b) 266	(c) 364	(d) 344
(72)				
	(a) 1296	` '	(c) 2254	()
(73)				NSION are reversed, then the last g letters are reversed and added,
		will be exactly in		
	(a) H	(b) N		(d) S
(74)	the third and the		he fifth and the	RESSION were interchanged, also e sixth letters and so on, which of e right?
	(a) R	(b) O	(c) S	(d) None of these
(75)	If in a certain coeas?	de, HAT is 782, R	ABBIT is 68119	92. Then how will HABIT be coded
	(a) 78139	(b) 78192	(c) 68192	(d) 78129
(76)	In a certain cod written as?	e, ELEPHANT is	written as TNF	PEAHLE, the CROCODILE will be
	(a) RCCOOIDEL	(b) ELCOOIDRO	c (c) ELCIOOD	DRC (d) ELCOIODRC
(77)			-	ty-nineth from the bottom among
		-		boys did not participate in the
		tive failed in it. F (b) 44	flow many boys (c) 50	were there in the class? (d) 55
(78)	(a) 40 Roshan ranked	` ,	` '	e from the bottom in a class. How
(10)		re there in the cla	ass?	nom the bottom in a class, now
	(a) 42	(b) 43	(c) 41	(d) 40
(79)	_	g questions whic make the given ec		four interchanges in signs and $(3 \div 4) + 2 = 2$
	(a) + and ÷, 2 and		(b) + and ÷, 2	
	(c) + and ÷, 3 and		(d) No interc	hanges, 3 and 4
	1 7			Page No: 8
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(80) If A stands for +, B stands for -, C stands for x, then what is the value of (10 C4) + (4 C 4) B 6?

(a) 60

(b) 56

(c) 50

(d) 20

(81) A child is looking for his father. He went 90 metres in the East before turning to his right. He went 20 metres before turning to his right again to look for his father at his uncle's place 30 metres from this point. His father was not there. From here he went 100 metres to the North before meeting his father in a street. How far did the son meet his father from the starting point?

(a) 80 metres

(b) 100 metres

(c) 140 metres

(d) 260 metres

(82) If A to the south of B and C is to the east of B, in what direction is A with respect to C?

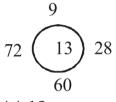
(a) North-east

(b) North-west

(c) South-east

(d) South-west

(83) Find the missing number



48 ? 32



(a) 12

(b) 15

(c) 17

(d) 18

(84) Find the mirror image.

DREAM ?

(a) МАЕЯD

MAERD (d)

DREAM (a)

DREAM (b)





CONGRATULATIONS ISAT 2022 Toppers



Adya Sharma



krisha Kothiya



Kavya Aga



Vandit Kotecha

For More information: - +91-87807 55750 E-Mail us: - isat@infinityscholarshub.com

Hiya shah

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

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CLASS-9-ISAT-PRACTISE TEST-1-ANSWER KEY

1.	(d)	2.	(b)	3.	(a)	4.	(a)	5.	(d)	6.	(a)	7.	(d)	8.	(c)
9.	(c)	10.	(a)	11.	(c)	12.	(c)	13.	(c)	14.	(c)	15.	(b)	16.	(c)
17.	(d)	18.	(b)	19.	(c)	20.	(a)	21.	(b)	22.	(b)	23.	(a)	24.	(c)
25.	(b)	26.	(c)	27.	(c)	28.	(c)	29.	(b)	30.	(c)	31.	(c)	32.	(b)
33.	(d)	34.	(b)	35.	(b)	36.	(b)	37.	(a)	38.	(c)	39.	(b)	40.	(d)
41.	(c)	42.	(c)	43.	(a)	44.	(d)	45.	(c)	46.	(c)	47.	(a)	48.	(d)
49.	(a)	50.	(d)	51.	(c)	52.	(a)	53.	(a)	54.	(b)	55.	(d)	56.	(a)
57.	(c)	58.	(b)	59.	(a)	60.	(b)	61.	(b)	62.	(d)	63.	(b)	64.	(b)
65.	(a)	66.	(a)	67.	(c)	68.	(a)	69.	(c)	70.	(c)	71.	(a)	72.	(d)
73.	(b)	74.	(d)	75.	(b)	76.	(b)	77.	(d)	78.	(c)	79.	(a)	80.	(c)
81.	(b)	82.	(d)	83.	(a)	84	(c)								