

Practice Test - 2

Class - IX

(For students moving to Class X)



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ISAT Practice Test

2

Time: 2 Hour

Maximum Marks: 336

CLASS-9

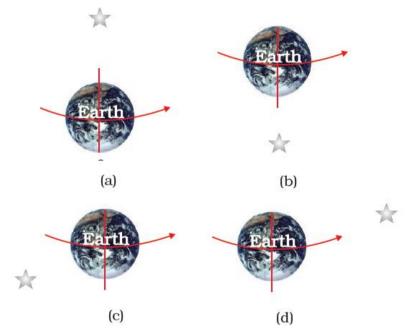
General Instructions

- 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) Which of the following figures depicts the position of pole star correctly?



- (2) The loudness of sound depends on:
 - (a) its amplitude. (b) its frequency. (c) its time period. (d) its speed.

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- (3) Electric current is to be passed from one body to another. For this purpose the two bodies must be joined by
 - (a) cotton thread (b) plastic string (c) copper wire (d) rubber band
- (4) We can see a non-luminous object when light:
 - (a) emitted by the object falls on the eye.
 - (b) is reflected from the object towards our eye.
 - (c) completely passes through the object.
 - (d) gets completely absorbed by the object.

(5)

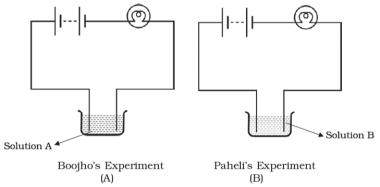


In Fig., a boy is shown pushing the box from right to left. The force of friction will act on the box

- (a) from right to left (\leftarrow)
- (b) from left to right (\rightarrow)
- (c) vertically downwards (\downarrow)
- (d) vertically upwards (1)
- (6) In the circuit shown in Fig., 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
- (7) Boojho and Paheli performed experiments taking similar bulbs and cells but two different solutions A and B as shown in Fig.



They found that the bulb in the setup A glows more brightly as compared to that of the setup B. You would conclude that

- (a) higher current is flowing through the circuit in setup A.
- (b) higher current is flowing through the circuit in setup B.

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	(c) equal current is flowing through	both the circuits.									
	(d) the current flowing through the		setups cannot be compared								
	in this manner.										
(8)	A car is accelerated on a levelled roa	ad and attains a ve	locity 4 times of its initial								
	velocity. In this process the potentia	al energy of the car									
	(a) does not change										
	(b) becomes twice to that of initial										
	(c) becomes 4 times that of initial										
	(d) becomes 16 times that of initial										
(9)	A key of a mechanical piano struck	gently and then st	ruck again but much harder								
	this time. In the second case										
 (9) A key of a mechanical piano struck gently and then struck again but much har this time. In the second case (a) sound will be louder but pitch will not be different (b) sound will be louder and pitch will also be higher (c) sound will be louder but pitch will be lower (d) both loudness and pitch will remain unaffected 											
	(b) sound will be louder and pitch w	rill also be higher									
	-										
	(d) both loudness and pitch will rem	ain unaffected									
(10)	The value of acceleration due to grav	vity									
	(a) is same on equator and poles	(b) is least on pole	es								
	(c) is least on equator	(d) increases from	n pole to equator								
(11)	According to the third law of motion	, action and reacti	on								
	(a) always act on the same body										
	(b) always act on different bodies in	opposite direction	S								
	(c) have same magnitude and directi	ions									
	(d) act on either body at normal to e										
(12)	A body is thrown vertically upward v	with velocity u, the	greatest height h to which								
	it will rise is,										
(13)	_	otions, the distanc	e moved and the magnitude								
	of displacement are equal?										
	3) In which of the following cases of motions, the distance moved and the magnitude										

(a) If the car is moving on straight road

- (b) If the car is moving in circular path
- (c) The pendulum is moving to and fro
- (d) The earth is revolving around the Sun
- (14) Loudness of sound is measured in units of
 - (a) decibel (dB) (c) metre (m) (d) metre/second (m/s) (b) hertz (Hz)

CHEMISTRY

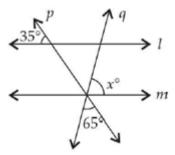
(15)	The clothes mad others to dry if so		the following fibre	s will take lesser time than
	(a) Silk	(b) Wool	(c) Nylon	(d) Rayon
(16)	` '	` '	` '	ly melts then level of water in
(,	beaker:			y
	(a) Increases		(b) Decreases	
	(c) remains the s	ame	(d) First increases	s then decreases
(17)	` '		• •	ammable materials?
(,	(a) Water	3 13 02.0 0000 01.	(b) Sulphur dioxi	
	(c) Carbon dioxid	e	(d) Carbon mono	
(18)	` '	st beneficial for se	` '	
(,	•	n-metallic liquids	yar atmig	
	, , ,	ds and solids such	as sulphur	
	. ,	solids and solids su	-	
	` '	solids from non-m	=	
(19)	` '	can be cut with a l	-	
()	(a) Sodium and p		(b) Barium and ca	alcium
	(c) Sodium and n		(d) Potassium and	
(20)	` '	ade from cotton?	(d) i otassidili alik	a carciain
(20)	(a) Nylon	(b) Terylene	(c) Rayon	(d) Acrylic
(21)	` '	at sublimes on heat	` , "	(d) Heryfie
(41)	(a) Ice.	(b) Dry ice.	(c) Water.	(d) Water vapors.
(22)	Which one is call	. , .	(c) water.	(d) Water vapors.
(22)	(a) silver	(b) platinum	(c) petroleum	(d) coal
(23)	` '	s on the principle	` ' -	(u) coai
(23)	(a) chemical effect		or. (b) magnetic effec	at of current
	` '		(d) all of the abov	
(24)	(c) heating effect		` '	
(24)		following has the l (b) Wax	(c) Candle	
(OE)	(a) H ₂	` ,	` '	(d) All of these
(25)		is not corroded by		
(06)	(a) copper	(b) zinc	(c) aluminium	(, G
(26)	-		_	in a substance when electric
	-	through it is calle		(d) thermionic conduction
(07)	` '	. ,	` '	(d) thermionic conduction
(27)	-		socium cinoride a	and ammonium chloride can
	be separated, is	caned	(1-) -1 +	1
	(a) sublimation		(b) chromatograp	ny
(00)	(c) evaporation	1 , 1 1 , 1	(d) distillation	0/ 6.1 1
(28)		oivent in a solution	n is 65. The mass	% of the solute in the same
	solution will be	(1.) (5	(-) FF	(1) 25
	(a) 90	(b) 65	(c) 55	(d) 35
				Page No: 5

BIOLOGY

(29)	Reproduction by budding takes place in							
	(a) hydra	(b) amoeba	(c) paramecium	(d) bacteria				
(30)	In human beings,	after fertilisation,	the structure which	ch gets embedded in the wall				
	of uterus is							
	(a) ovum	(b) embryo	(c) foetus	(d) zygote				
(31)	Aquatic animals i	n which fertilisatio	n occurs in water	are said to be:				
	(a) viviparous with	nout fertilisation.						
	(b) oviparous with	external fertilisati	ion.					
	(c) viviparous with	n internal fertilisat	ion.					
	(d) oviparous with	ı internal fertilisati	on.					
(32)	The cell organelle	involved in formin	g complex sugars	from simple sugars are				
	(a) endoplasmic re	eticulum	(b) ribosomes					
	(c) plastids		(d) golgi apparatu	s				
(33)		following is not a f	unction of vacuole?					
	(a) Storage							
	(b) Providing turg	idity and rigidity to	the cell					
	(c) Waste excretion	b) Providing turgidity and rigidity to the cell c) Waste excretion						
	(d) Locomotion							
(34)	•	during the prepara						
	(a) oxygen		(b) carbon dioxide(d) sulphur dioxid					
	(c) nitrogen							
(35)			ets reduced due to					
	(a) cuticle	(b) stomata	(c) lignin	(d) suberin				
(36)	Parenchyma cells		11 1					
	` ,	ecified and thin wa	alled					
	(b) thick walled an	na specialisea						
	(c) lignified							
(27)	(d) none of these	lovoid of ED area						
(37)	Eukaryotic cells d (a) Liver cells	(b) Kidney cell	(a) I allocoute	(d) Moture enthropytes				
(38)	SER takes part in	` '	(c) Leucocyte	(d) Mature erythrocytes				
(30)	(a) lipids and ster		(b) vitamins					
	(c) carbohydrate	olus	(d) all of the above	<u>م</u>				
(39)	, ,	ibosomes contain:	(a) an of the above					
(02)	(a) DNA	isosomes contain.	(b) RNA					
	(c) Both RNA & D	NA	(d) Lipids					
(40)	` '	rganelle of the cells	` ' -					
()	(a) Mitochondria	_	(c) Ribosomes	(d) Golgi body				
(41)	Golgi apparatus i	` '	· /	, , ,				
• •	(a) excretion	(b) secretion	(c) ATP synthesis	(d) RNA synthesis				
	` '	· /	. ,	. ,				

(42)	Main function	of lysosome is:		
	(a) Secretion		(b) Respiratio	n
	(c) Extracellula	ar digestion	(d) Intra cellu	lar digestion
		MA'	THEMATICS	
(43)	Every rational			
· - /	(a) a natural n		(b) an integer	
	(c) a real numb		(d) a whole n	
(44)	• •	any two irrational	numbers is	
	(a) always an i	rrational number	(b) always a r	ational number
	(c) always an in	nteger	(d) sometimes	s rational, sometimes irrational
(45)	The decimal ex	xpansion of the nur	nber $\sqrt{2}$ is	
•	(a) a finite deci		(b) 1.41421	
	` '	ating recurring	` '	nating non-recurring
(46)	` '	o polynomial is	. ,	
	(a) 0	-	(b) 1	
	(c) Any real nu	mber	(d) Not define	d
(47)	One of the zero	oes of the polynomi	al $2x^2 + 7x - 4$ is	
	(a) 2	(b) $\frac{1}{2}$	(c) $-\frac{1}{2}$	(d) -2
(48)	If $x + 1$ is a fac	tor of the polynomi	al $2x^2$ + kx, then	the value of k is
	(a) -3	(b) 4	(c) 2	(d) -2
(49)	Point (-3, 5) lie	es in the		
	(a) first quadra	ınt	(b) second qu	adrant
	(c) third quadr	ant	(d) fourth qua	adrant
(50)	Signs of the respectively	abscissa and ord	inate of a poin	t in the second quadrant are
	(a) +, +	(b) -, -	(c) -, +	(d) +, -
(51)	The point at w	hich the two coordi	nate axes meet is	s called the
	(a) abscissa	(b) ordinate	(c) origin	(d) quadrant
(52)	The graph of the	ne linear equation 2	2x + 3y = 6 cuts t	the y-axis at the point
	(a) $(2, 0)$	(b) (0, 3)	(c) (3, 0)	(d) (0, 2)
(53)	Any point on the	he line $y = x$ of the		
	(a) (a, a)	(b) (0, a)	(c) (a, 0)	(d) (a, -a)
(54)			nen $x + y + z =$	10 + z. The Euclid's axiom that
	illustrates this		() 751 · 1 A ·	(1) D (1 A :
/E.C.\	(a) First Axiom	` '	` '	m (d) Fourth Axiom
(55)	_	a triangle are in the		•
	(a) an acute an		` ,	angled triangle
	(c) a right trian	igie	(d) an isoscel	es mangie
				Page No: 7

(56) In the adjoining figure, if $l \mid l$ m then the value of x is

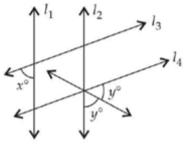


(a) 70°

(b) 100°

(c) 80°

- (d) 85°
- (57) In the adjoining figure, if $l_1 \mid l_2$ and $l_3 \mid l_4$ then the value of y in terms of x is

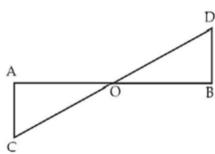


(a) 90 + x

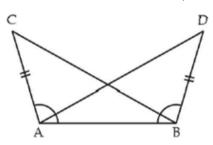
(b) 90 - x

(c) 90 + 2x

- (d) $90 \frac{x}{2}$
- (58) In the adjoining figure, O is mid-point of AB. If $\angle ACO = \angle BDO$, then $\angle OAC$ is equal to



- (a) ∠OCA
- (b) ∠ODB
- (c) ∠OBD
- (d) ∠BOD
- (59) In the adjoining figure, AC = BD. If \angle CAB = \angle DBA, then \angle ACB is equal to

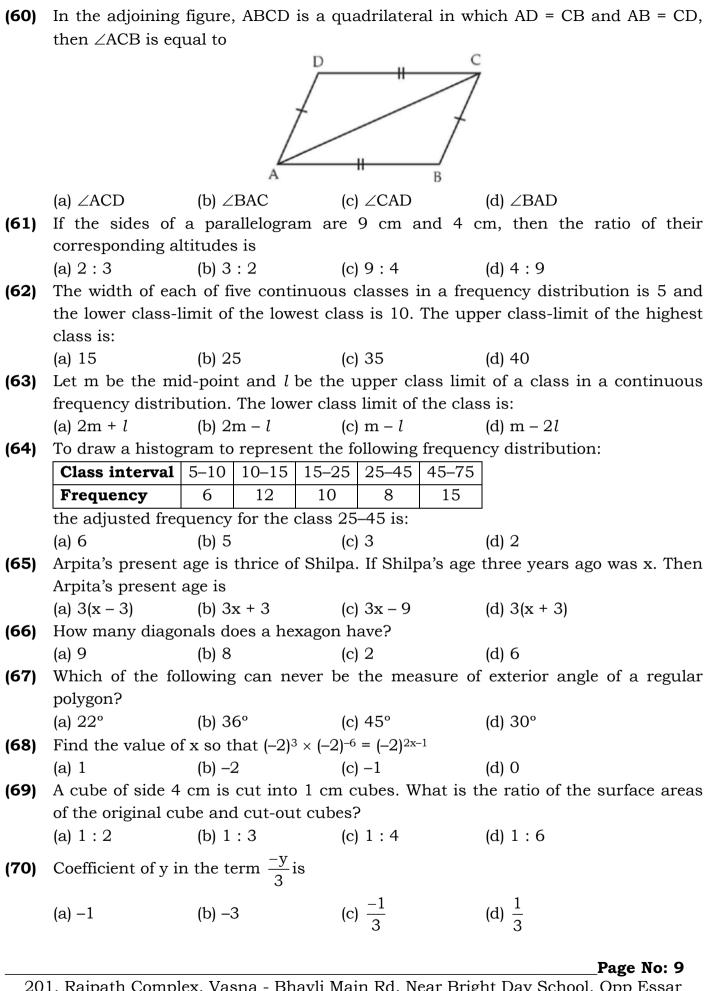


(a) ∠BAD

(b) ∠ABC

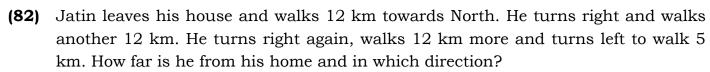
(c) ∠ABD

(d) ∠BDA



MENTAL ABILITY

(71)	3, 6, 18, 72, 360,	••••		
	(a) 1296	(b) 2160	(c) 2254	(d) 4329
(72)	5, 9, 21, 37, 81, .	•••••		
	(a) 153	(b) 150	(c) 158	(d) 151
(73)	If the positions	of the third and t	enth letters of the	e word DOCUMENTION are
	interchanged, an	d likewise the po	sitions of the four	th and seventh letters, the
	second and sixth	letters is interch	anged, which of th	ne following will be eleventh
	from the right end	d?		
	(a) C	(b) I	(c) T	(d) U
(74)	Arrange the giver 2nd position.	n words in alphabe	etical order and tic	k the one that comes in the
	(a) Restrict	(b) Rocket	(c) Robber	(d) Radom
(75)	In a certain code,	` '	` '	S is coded as?
	(a) EFRRARIS	(b) EFRRRASI	(c) EFRRRAIS	(d) EFRRARSI
(76)	In a certain code	, APPLE is XNNZM	I and BAT is HXC,	, then BATTLE will be coded
	as?			
	(a) XHCCZH	(b) HXCCZM	(c) HXCCMZ (d) H	XMCCZ
(77)	A number is grea	(b) 2160 (c) 2254 (d) 4329 (b) 150 (c) 158 (d) 151 of the third and tenth letters of the word DOCUMENTION are not likewise the positions of the fourth and seventh letters, the h letters is interchanged, which of the following will be eleventhed? (b) I (c) T (d) U en words in alphabetical order and tick the one that comes in the composition of the following will be eleventhed? (b) Rocket (c) Robber (d) Radom (c) AFFAIR is FAAFRI, then FERRARIS is coded as? (b) EFRRRASI (c) EFRRRAIS (d) EFRRARSI (e) APPLE is XNNZM and BAT is HXC, then BATTLE will be coded (b) HXCCZM (c) HXCCMZ (d) HXMCCZ (d) HXMCCZ (d) HXCCZM (e) Execute than 3 but less than 8. Also, it is greater than 6 but less than 1 is (b) 6 (c) 7 (d) 8 to make a number which is perfect square of a two-digit odd expected, the sixth and the ninth digits of the number 187642539 (d) No such number can be made (expected) and the digit in the unit's place of that two-digit odd number? (b) 7 (d) No such number can be made (expected) (e) 43 (d) 13/2 (f) 18 (c) 43 (d) 13/2 (f) 18 (f) 1		
	10. The number i	S		
	(a) 5	(b) 6	(c) 7	(d) 8
(78)	If it is possible t	to make a numbe	r which is perfect	square of a two- digit odd
	number with the	second, the sixth	and the ninth digi	ts of the number 187642539
(72) 5 ((73) I i i i i i i i i i i i i i i i i i i	which of the follow	wing is the digit in	the unit's place of	that two- digit odd number?
	(a) 1		(b) 7	
	(c) 9		• •	
(79)				
	(a) 2	(b) 18	(c) 43	(d) 13/2
(80)				
		denotes 'greater 1	than', find which	of the following is a correct
	statement:			
	(a) $3 + 2 > 4 = 9 +$			
	(b) $3 > 2 > 4 = 18$			
	(c) $3 > 2 < 4 \times 8 +$			
	(d) $3 + 2 < 4 \times 9 +$			1.6.1
(81)				•
	_	-	_	turned right and moved 15
		v iar is she from he		
	(a) 25 metres		` '	
	(c) 50 metres		(a) 45 metres	



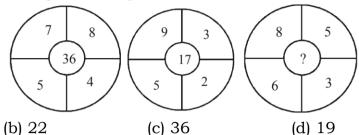
(a) 7 km East

(b) 10 km East

(c) 17 km East

(d) 24 km East

(83) What number should replace the question mark?



(a) 18

(84) jealous [?

jealous (b) jealuos (c) suolaej (d) suolaej (a)





CONGRATULATIONS ISAT 2022 Toppers



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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-2-ANSWER KEY

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