

# CLASS-VI Sample Paper-2

## **ENTRANCE TEST CUM SCHOLARSHIP TEST**

### HS/P2

[Time: 3 Hours]

#### A. General:

[Max Marks: 270]

- 1. This booklet is a Question Paper containing 90 questions.
- 2. Blank Papers, Clipboards, Log Tables, slide rules, calculators, cellular phones, pagers and electronic gadgets in any form are not allowed to be carried inside the examination hall.
- 3. The answer sheet, a machine-readable optical mark recognition sheet (OMR Sheet), is provided separately.
- 4. DO NOT TAMPER WITH THE OMR OR THE BOOKLET.
- 5. Please fill your roll number correctly in the OMR sheet (answer sheet).
- 6. Both Question Paper and OMR Answer Sheet will be submitted after completion of this examination.

#### B. Question Paper Format and marking scheme:

- 1. The Question Paper consists of five parts (Part I: MAT, Part II: Physics, Part III: Chemistry, Part IV: Biology, Part V: Mathematic).
- 2. Each Question carries +3 marks for correct answer and -1 mark for incorrect answer.

MAT Direction (1-3)- Study the following information and answer the questions given below it. There is a group of five persons K, G, H, R and J. K, G and H are intelligent. (i) (ii) K, R and J are hard working. (iii) R, H and J are honest and (iv) K and J are honest and K, G and J are ambitious (v) Which of the following persons is neither hard working nor ambitious? 1. (a) Κ (b) G (c) Η (d) R Which of the following persons is neither honest nor hard working but is ambitions ? 2. (b) (a) Κ G (c) R Η (d) Five persons A, B, C, D and E are sitting in a row facing you such that D is on the left of C and B is on 3. the right of E. A is on the right of C and B is on the left of D. If E occupies a corner position, then who is sitting in the centre? С А (b) В D (a) (c) (d) Manish ranked sixteenth from the top and twenty-ninth from the bottom among those who has 4. passed an examination. Six boys did not participate in the examination and five failed in it. How many boys were there in the class? (a) 40 50 (b) 44 (c) (d) 55 Roshan ranked 11th from the top and thirty one from the bottom in a class. How many students are 5. there in the class? (a) 42 (b) 43 (c) 41 (d) 40 DIRECTIONS (Qs. 6-7): In the following addition each of the letters denote a different integer. Each letter stands for the same integer throughout where ' P ' stands for 4. Ν 0 MQ R Р Ζ ZZ Ζ 6. What is the value of the letter 'Z' throughout? (a) 4 (b) 6 8 (c) (d) Cannot be determined If the value of N is greater than 5, then 'N' stands for: 7. (d) 6 or 7 (a) (b) 7 (c) 8 Directions (8-9): What number/ character/letter should replace the question mark? 9 24 41 8. 32 72 13 28 36 60 12 12 (b) 15 (a) (c) 17 (d) 18 0 -1-21 0 -1

(a) 1 (b) -1 (c) -2 (d) -4 **Directions (10-12):** Refer to the following Venndiagram:

9.

2

?

0

2

HISTORY 16 GEOGRAPHY 14 12 13 q q 20 16 MATHEMATICS 15 19 SCIENCE 10. The number of students who took any three of the above subjects was (a) 62 (b) 63 (c) 64 (d) 66 11. The number of students in total, who took history or Mathematics or Science, was (a) 190 183 (b) (c) 424 (d) 430 The number of students who took both History and Geography among other subjects was 12. 65 (a) 62 (b) 63 (c) (d) 66 A child is looking for his father. He went 90 metres in the East before turning to his right. He went 20 13. 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 260 metres (d) 14. 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 South-east (d) South-west (c) 15. A,B,C and D are playing cards. A and B are partners. D faces towards North. If A faces towards west, then who faces towards south? D (a) В (b) С (c) (d) date inadequate In the left hand side of the following equation which one of the four interchanges in signs and 16. numbers would make the given equation correct?  $(3 \div 4) + 2 = 2$ + and  $\div$ ,2 and 3 + and  $\div$ ,2 and 4 (a) (b) (c) + and  $\div$ ,3 and 4 (d) No interchanges, 3 and 4] 17. If A stands for +, B stands for -, C stands for ×, then what is the value of (10C4)+(4C4)B6=? (a) 60 (b) 56 (c) 50 (d) 20 DIRECTIONS (Qs. 18-19): Read the following information carefully to answer the questions. (i) 'A' \$ B' means ' A ' is mother of ' B ' (ii) 'A ' # B' means ' A ' is father of ' B ' (iii) 'A' @ B' Means ' A ' is husband of ' B ' (iv) 'A ' % B' means ' A ' is daughter of ' B ' P@Q\$M#T indicates what relationship of P with T 18. Paternal grandmother Maternal grandmother (a) (b) Paternal grandfather (d) Maternal grandfather (c) Which of the following expressions indicates 'R is the sister of H'? 19. H % D @ F \$ R H\$D@F#R (b) R% D@F \$H (c) R\$D @ F# H (d) (a) DIRECTIONS (20-21): Find the correct option for the mirror images for the following questions. DREAM 20. (c) MABAD (d) MABAD MAERD (a) MAE 9D (b) NEWS ? 21.

(b) И

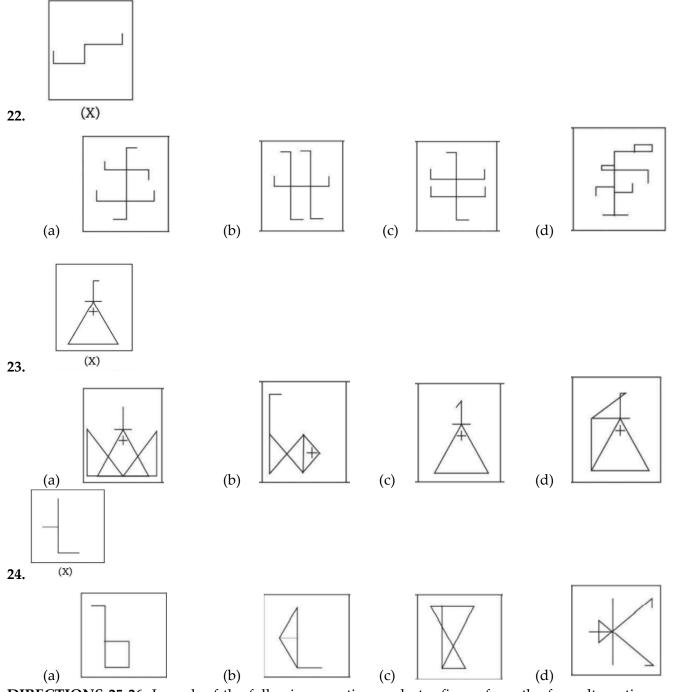
SWEN

SWEN

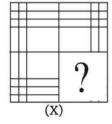
(d) SW3N

**DIRECTIONS – 22-24:** In each of the following questions, you are given a figure (X) followed by four alternative figures (1), (2), (3), (4) such that fig. (X) is embedded in one of them. Trace out the alternative figure which contains fig. (X) as its part.

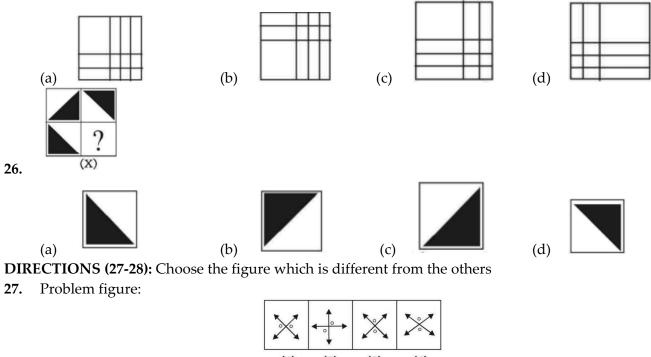
(c)

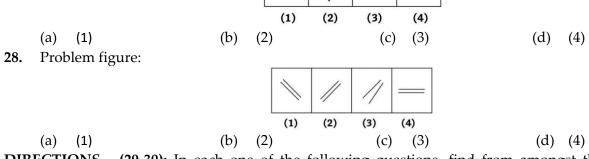


**DIRECTIONS-25-26:** In each of the following questions, select a figure from the four alternatives, which when placed in the space where the question mark is shown in figure (X) would complete the figure.



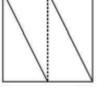
25.





DIRECTIONS - (29-30); In each one of the following questions, find from amongst the four response figures, the one which resembles the pattern formed when the transparent sheet, carrying a design, is folded along the dotted line.

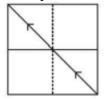




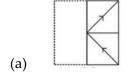
Responses figure



30. **Transparent Sheet** 



**Responses** figure

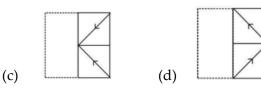


(b)

(b)







### PHYSICS

			PHYS				
On a ho	t day, beach sand i	s hott	er than the ocean v	water	because of differe	ence in	
(a) tex	xture	(b)	conductivity	(c)	colour	(d)	specific heat
The prir	mary mode of heat	trans	fer in a solid is				
(a) co	nduction			(b)	conduction and	conve	ction
(c) co	nvection			(d)	radiation		
To meas	sure short intervals	s of tir	ne, we use a				
(a) sto	op watch	(b)	pendulum dock	(c)	wrist watch	(d)	none of these
The time	e period of a simpl	e pen	dulum depends or	า			
				(b)	the mass of the	bob	
(c) the	e length of the strir	ng		(d)	none of these		
Tornado	o is a form of	0					
(a) wi	ind	(b)	thunderstorm	(c)	cyclone	(d)	None of these
The pres	sence of water vap	our ir	air is called		2		
		(b)	liquefied air	(c)	hydrated air	(d)	None of these
Which c	of the following ap	plianc	tes is not based on		rinciple of heating	g effect	of current?
							electric heater
The dire	ection in which con	• •				• •	
		-	-		5 0		
	e e		west		north	(d)	south
. ,	rrors are kept at 6	• •	each other and a	• •	is placed in the	• • •	. The total number of
	-			5	1		
(a) 3		(b)	4	(c)	5	(d)	6
(a) 5			т		0	(04)	6
( )	ght travels from or	• •		• • •		• •	0
When li	ght travels from or locity	ne me	dium to another, th	here is	s no change in its	-	
When li	ght travels from or locity	• •		• • •		• •	wavelength
When li	0	ne me	dium to another, th amplitude	here is (c)	s no change in its frequency	-	
When li (a) ve	locity	ne me (b)	dium to another, th amplitude CHEMIS	here is (c) STR	s no change in its frequency <b>Y</b>	-	
When li (a) ve The corr	locity rect ascending orde	ne me (b) er of g	dium to another, th amplitude CHEMIS gases as per their co	here is (c) STR ompo	s no change in its frequency <b>Y</b> sition in air is	- (d)	wavelength
When li (a) ve The corr (a) ox	locity rect ascending orde ygen < carbon dio>	ne me (b) er of g kide <	dium to another, th amplitude CHEMIS gases as per their co nitrogen.	here is (c) STR ompo (b)	s no change in its frequency Y sition in air is hydrogen < oxy	_ (d) gen < r	wavelength nitrogen.
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	<ul> <li>(a) tex</li> <li>The prin</li> <li>(a) co</li> <li>(c) co</li> <li>To meas</li> <li>(a) sto</li> <li>The tim</li> <li>(a) the</li> <li>(c) the</li> <li>Tornado</li> <li>(a) with</li> <li>Tornado</li> <li>(a) with</li> <li>The pression</li> <li>(a) hu</li> <li>Which co</li> <li>(a) ele</li> <li>The direct the currer</li> <li>(a) ea</li> <li>Two minimages</li> </ul>	<ul> <li>(a) texture</li> <li>The primary mode of heat</li> <li>(a) conduction</li> <li>(c) convection</li> <li>To measure short intervals</li> <li>(a) stop watch</li> <li>The time period of a simple</li> <li>(a) the displacement of the displacement of the strint</li> <li>Tornado is a form of</li> <li>(a) wind</li> <li>The presence of water vape</li> <li>(a) humidity</li> <li>Which of the following ape</li> <li>(a) electric bell</li> <li>The direction in which cont</li> <li>the current is flowing from</li> <li>(a) east</li> <li>Two mirrors are kept at 6</li> <li>images formed is-</li> </ul>	<ul> <li>(a) texture</li> <li>(b) The primary mode of heat trans</li> <li>(a) conduction</li> <li>(c) convection</li> <li>To measure short intervals of tir</li> <li>(a) stop watch</li> <li>(b) The time period of a simple pen</li> <li>(a) the displacement of the bo</li> <li>(c) the length of the string</li> <li>Tornado is a form of</li> <li>(a) wind</li> <li>(b) The presence of water vapour ir</li> <li>(a) humidity</li> <li>(b) Which of the following appliance</li> <li>(a) electric bell</li> <li>(b) The direction in which compass</li> <li>the current is flowing from north</li> <li>(a) east</li> <li>(b) Two mirrors are kept at 60° to images formed is-</li> </ul>	<ul> <li>(a) texture</li> <li>(b) conductivity</li> <li>The primary mode of heat transfer in a solid is</li> <li>(a) conduction</li> <li>(c) convection</li> <li>To measure short intervals of time, we use a</li> <li>(a) stop watch</li> <li>(b) pendulum dock</li> <li>The time period of a simple pendulum depends or</li> <li>(a) the displacement of the bob</li> <li>(c) the length of the string</li> <li>Tornado is a form of</li> <li>(a) wind</li> <li>(b) thunderstorm</li> <li>The presence of water vapour in air is called</li> <li>(a) humidity</li> <li>(b) liquefied air</li> <li>Which of the following appliances is not based on</li> <li>(a) electric bell</li> <li>(b) electric kettle</li> <li>The direction in which compass needle will point, the current is flowing from north to south, will be:</li> <li>(a) east</li> <li>(b) west</li> <li>Two mirrors are kept at 60° to each other and a images formed is-</li> </ul>	(a) texture(b) conductivity(c)The primary mode of heat transfer in a solid is(a) conduction(b)(c) convection(d)To measure short intervals of time, we use a(a) stop watch(b) pendulum dock(c) The time period of a simple pendulum depends on(a) the displacement of the bob(b)(c) the length of the string(d)Tornado is a form of(a) wind(a) wind(b) thunderstorm(c) The presence of water vapour in air is called(a) humidity(b) liquefied air(c) Which of the following appliances is not based on the price(a) electric bell(b) electric kettle(c) The direction in which compass needle will point, when(a) east(b) west(c) Two mirrors are kept at 60° to each other and a bodyimages formed is-	(a) texture(b) conductivity(c) colourThe primary mode of heat transfer in a solid is(a) conduction(b) conduction and(c) convection(d) radiationTo measure short intervals of time, we use a(a) stop watch(b) pendulum dock(c) the displacement of the bob(c) wrist watch(a) the displacement of the bob(b) the mass of the(c) the length of the string(d) none of theseTornado is a form of(c) cyclone(a) wind(b) thunderstorm(c) cycloneThe presence of water vapour in air is called(a) humidity(a) electric bell(b) electric kettle(c) hydrated air(a) electric bell(b) electric kettle(c) electric bulbThe direction in which compass needle will point, when a wire carrying the current is flowing from north to south, will be:(a) east(a) east(b) west(c) northTwo mirrors are kept at 60° to each other and a body is placed in the sinages formed is-	The primary mode of heat transfer in a solid is         (a) conduction       (b) conduction and convection         (c) convection       (d) radiation         To measure short intervals of time, we use a       (a) stop watch       (b) pendulum dock       (c) wrist watch       (d)         (a) stop watch       (b) pendulum dock       (c) wrist watch       (d)         The time period of a simple pendulum depends on       (a) the displacement of the bob       (b) the mass of the bob         (c) the length of the string       (d) none of these         Tornado is a form of       (a) wind       (b) thunderstorm       (c) cyclone       (d)         (a) wind       (b) thunderstorm       (c) hydrated air       (d)         The presence of water vapour in air is called       (a) humidity       (b) liquefied air       (c) hydrated air       (d)         Which of the following appliances is not based on the principle of heating effect       (a) electric bell       (b) electric kettle       (c) electric bulb       (d)         The direction in which compass needle will point, when a wire carrying a current the current is flowing from north to south, will be:       (a) east       (b) west       (c) north       (d)         Two mirrors are kept at 60° to each other and a body is placed in the middle images formed is-       (c)       (c)       (c)

(a) Mustard oil (b) Soft drink (c) Coconut oil (d) Kerosene

**48.** Why are paper bags preferred over plastic bags?

Paper bags are lighter.

(a)

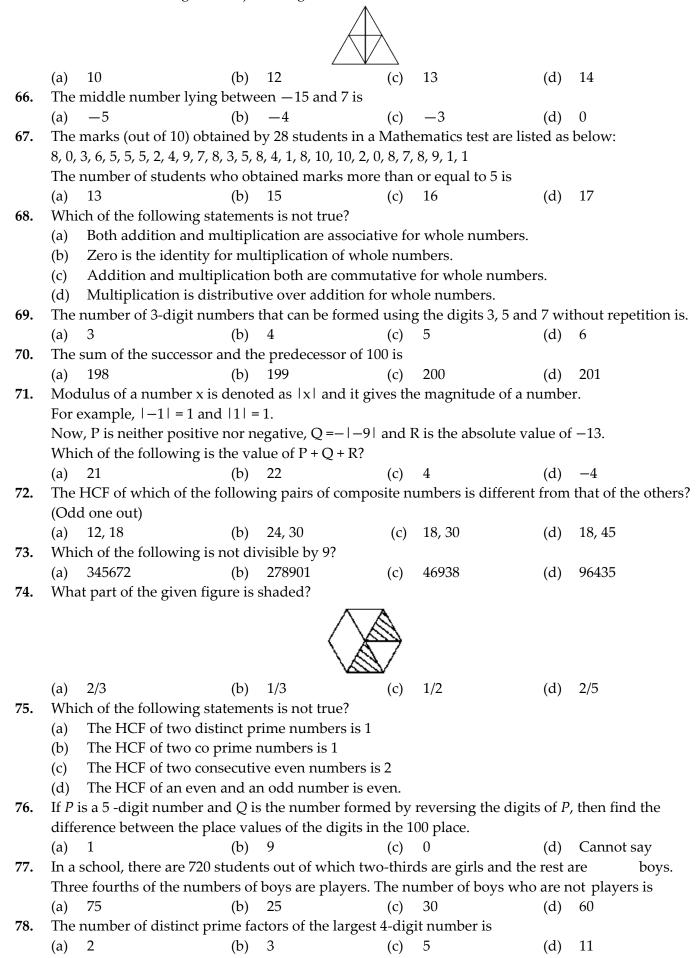
- (b) Paper bags are stronger.
- (c) Paper bags are cheap. (d) Paper bags are biodegradable
- **49.** The process of grouping the things on the basis of similar properties is called

(a) roughness (b) classification (c) matter (d) arrangement

- **50.** During the process of filtration, the solid particles remain on filter paper, these solid particles are called
  - (a) Solution (b) Sediment (c) Filtrate (d) Residue

## BIOLOGY

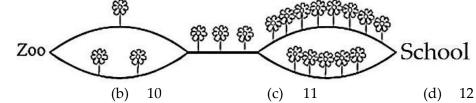
51.	<b>51.</b> Honey bees are often seen sitting on flowers. Why do they do so?								
010	(a) They like flowers	(b)	-						
	(c) They suck nectar from flowers	(d)	All of these						
52.	Which is an example of an animal found in mount	• •							
	(a) Leopard (b) Yak	(c)	Mountain goat	(d)	All of these				
53.	Which one of the following is a function of leaves?		0						
	(a) Photosynthesis (b) Transpiration	(c)	Both (a) and (b)	(d)	Support fruits				
54.	Which one is the best for health?				11				
	(a) Boiled seeds (b) Roasted seeds	(c)	Wet swollen seed	ds(d)	Sprouted seeds				
55.	Sunken stomata are present in								
	(a) aquatic plants	(b) e	(b) epiphytes						
	(c) desert plants	(d) 1	(d) mesophytes						
56.	Which is an aquatic adaptation?								
	(a) Streamlined body	(b)	Light and hollow	v bone	S				
	(c) Hair on body	(d)	Gills						
57.	Respiration in aquatic animals occurs by								
	(a) lungs (b) gills	(c)	nostrils	(d)	legs				
58.	Leaf venation and type of root is correctly paired i	in							
	(a) parallel venation, fibrous roots								
	(b) parallel venation, taproot								
	(c) no relation exists in leaf venation and type of	t roots	5						
50	(d) reticulate venation, fibrous roots								
59.	Which is a correct set of parts of a pistil?	(h)	Organizative and	ati ana	_				
	<ul><li>(a) Ovary, style and filament</li><li>(c) Ovary, anther and filament</li></ul>	(b) (d)	Ovary style and stigma Filament and anther						
60.	<ul><li>(c) Ovary, anther and filament</li><li>Different organisms eat kinds of food</li></ul>	Filainein and am	ITTEL						
00.	(a) same (b) Different	(c)	Both a and b	(d)	None				
	(d) Sume (c) Emercial MAT			(a)	ivone				
61.									
	(a) 4 (b) 40000	(c)	400000	(d)	4000000				
62.	The largest 4-digit number, using any one digit twice, from digits 5, 9, 2 and 6 is								
	(a) 9652 (b) 9562	(c)	9659	(d)	9965				
63.	One million is equal to			~ /					
	(a) 1 lakh (b) 10 lakh	(c)	1 crore	(d)	10 crore				
64.	A whole number is added to 25 and the same num		subtracted from 2	. ,	e sum of the resulting				
	numbers is				C C				
	(a) 0 (b) 25	(c)	50	(d)	75				



- 79. The number of distinct factors of the smallest 5-digit number is

  (a) 32
  (b) 34
  (c) 36
  (d) 49

  80. If the number 7254 \* 98 is divisible by 22, the digit at \* is
- (a) 1 (b) 2 (c) 6 (d) 0 (d) 0
- **81.** Bhavna goes directly from the zoo to school and counts the Sunflowers along the way. Which of the following numbers can he not obtain this way?



82. The least positive number which when divided by 10, 15 and 20 leaves a remainder 3.
(a) 33
(b) 63
(c) 93
(d) 123

9

(a)

**83.** The numbers 1, 4, 7, 10 and 13 should be written into the squares so that the sum of the three numbers in the horizontal row is equal to the sum of the three numbers in the vertical column. What is the largest possible value of these sums?



	(a) 18	(b)	20	(c)	24	(d)	22
84.	When Kitty the ca	at is very lazy a	and sits ar	round the who	le day, she dr	inks 60 ml o	of milk. When she
	chases mice she d	lrinks a third m	nore milk.	In the past tw	o weeks, she l	has chased	mice on every second
	day. How much milk has she drunk in the past two weeks?						
	(a) 840 ml	(b)	980 ml	(c)	1050 ml	(d)	1120 ml
85.	5. In the school for animals there are 3 cats, 2 ducks, 2 sheep and some dogs. The teacher counted the						
	legs of all the animals, and got 44. How many dogs go to the school?						
	(a) 6	(b)	5	(c)	4	(d)	3
86.	5. The largest number which always divides the sum of any pair of consecutive odd numbers is						
	(a) 2	(b)	4	(c)	6	(d)	8
87.	87. The number of common prime factors of 75, 60,105 is						
	(a) 2	(b)	3	(c)	4	(d)	5
88.	Which of the follo	0	5				
	(a) $6^5 + 1$	( )	$6^{11} + 1$	( )	$6^6 + 1$	(d)	$6^{6} - 1$
89.	Which of the following numbers is divisible by 11?						
	(a) 1011011	(b)	1111111	(c)	22222222	(d)	3333333
90.	Grey and white j	pearls are threa	ded on a	piece of string.			
- <b>0</b> 0 <b>0</b> 000 <b>00</b> 0 <b>0</b> 00 <b>00</b> 00 <b>0</b> -							
	Monika wants to have 5 grey pearls. However, she can only pull off pearls from the end of the string.						
	TT1 ( 1 1	1 11 ((	1	1 11 1	A711		1 ( 1) 1

Therefore she has to pull off some white pearls as well. What is the minimum number of white pearls she has to pull off, to get 5 grey pearls?

(a) 2 (b) 3 (c) 4 (d) 5