

Page   1 of 40	(SAS – ESSP – Assessment Feb – Mar 2019) Grade-X   V-III Sindhi

Subject	Marks	Time
English	30	60 Minutes
Mathematics	35	60 Minutes
Physics	35	60 Minutes
Total	100	180 Minutes

Page   2 of 40 (SAS – ESSP – Assessment Feb – Mar 2019) Grade-X	.   V-III Sindhi
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# INSTRUCTIONS FOR THE STUDENT **Objective Part**

شاگردجي لاءِ هدايتون معروضي حصو

•	All questions are compulsory.	<ul> <li>سڀسوال لازمي آهن.</li> </ul>
	All questions carry equal marks.	<ul> <li>سپني سوالن تي هڪ جيتريون مارڪون رکيل</li> <li>آهن.</li> </ul>
•	Do not fill more than one option for one question. Multiple options will be considered wrong.	<ul> <li>هڪ سوال جي جواب لاءِ هڪ کان وڌيڪ اختيارن</li> <li>کي نہ ڀريو. گهڻن اختيارن واري جواب کي غلط</li> <li>تصور ڪيو ويندو.</li> </ul>
•	Fill correct options according to the following example.	<ul> <li>جوابن کي هيٺ ڏنل مثال مطابق چڱيءَ ريت ڀريو.</li> </ul>
•	Pencil should be used to fill the answers.	<ul> <li>جوابن واري گولڙي کي ڀرڻ لاءِ پينسل جو استعمال</li> <li>ڪريو.</li> </ul>
•	Finish each part in the given time as mentioned in the paper.	<ul> <li>پیپر ۾ ڏنل هر هڪ حصي کي ڏنل وقت مطابق</li> <li>حل ڪريو.</li> </ul>
	Use the given blank page for rough work.	<ul> <li>رف كر لاء ذنل خالي صفحو استعمال كريو.</li> </ul>

rage   5 of 40 (5/15) EBBT Assessment Feb Wat 2015) Grade A   V III Sindin	S – ESSP – Assessment Feb – Mar 2019) Grade-X   V-III Sindhi
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## INSTRUCTIONS FOR THE STUDENT

شاگردجي لاءِ هدايتون موضوعي حصو

## **Subjective Part**

<ul> <li>All questions are compulsory.</li> </ul>	<ul> <li>سڀسوال لازمي آهن.</li> </ul>
• Finish each question in the given time as mentioned in the paper.	<ul> <li>موضوعي حصي كي پيپر ۾ ڏنل وقت مطابق حل</li> <li>ڪريو.</li> </ul>
<ul> <li>Avoid over writing or untidy work.</li> </ul>	<ul> <li>ٻٽي لکڻي ۽ ڊاهه ڊوهه واري ڪر کان پاسو ڪريو.</li> </ul>
<ul> <li>Use the given blank page for math's rough work.</li> </ul>	<ul> <li>رياضيءَ جورف كر كرڻ لاءِ ڏنل خالي صفحو</li> <li>استعمال كريو.</li> </ul>
<ul> <li>Pencil should be used to write the answers.</li> </ul>	<ul> <li>جوابَ لكڻ لاءِ پينسل جو استعمال ڪريو.</li> </ul>

Page   <b>4</b> of <b>40</b> (SAS – ESSP – Asso	essment Feb – Mar 2019) Gra	de-X   V-III Sindhi
	MCQ Practice	
<b>1.</b> Name of our country is		1. اسانجي ملڪ جو نالو آهي
Kenya.	A	كينيا.
Pakistan.	B	پاکستان.
Malaysia.	©	ملائيشيا.
Indonesia.	<b>(D)</b>	اندونیشیا.
<b>2.</b> Add.		2. جوڙ ڪريو.
	2 + 2 =	
4	<b>(A)</b>	
5	B	
6	©	
7	(1)	

	English
Complete the follow	wing sentence.
	I have lived here 2013.
starting	<b>(A)</b>
since	B
from	©
for	<b>(D)</b>
Choose the correct	spelling.
musium	<b>(A)</b>
museim	B
museum	©
muisium	<b>(D)</b>

Page   6 of 40 (SAS – ESSP – Assessment Feb – Mar 2019) Grade-X   V-III Sindhi		
•	D. 14b 111	
3.	Read the given sentence and identif	
		is very rainy.
	the	<b>(A)</b>
	very	®
	rainy	©
	night	(D)
4.	King Faisal became the governor of	f Hijaz at the age of?
	Twenty six	A
	Twenty four	B
	Twenty one	©
	Twenty	<b>(D)</b>

Page	Page   7 of 40 (SAS – ESSP – Assessment Feb – Mar 2019) Grade-X   V-III Sindhi		
5.	The synonym of the word "devotee	s" is	
	a common man	<b>(A)</b>	
	follower	B	
	enemies	©	
	friends	(D)	
6.	Identify the meaning of the word "c	clasp" in the following lines.	
		old are young again	
		mother's hands	
	squeeze her hands	<b>(A)</b>	
	release her hands	B	
	hold her hands	©	
	fold her hands	<b>(D)</b>	

Page	e   8 of 40 (SAS – ESSP – Assessment Feb	o – Mar 2019) Grade-X   V-III Sindhi
7.	Read the given sentence and identify	fy the speech.
	She said th	at she is happy.
	Interrogative	<b>(A)</b>
	Negative	B
	Indirect	©
	Direct	<b>(D)</b>
8.	The following idiom means	
	"To bro	eak the ice"
	to withdraw from an argument	<b>(A)</b>
	to go around the topic	B
	to overcome shyness	©
	to have a grievance	(1)

Page   9 of 40 (SAS – ESSP – Assessment Feb – Mar 2019) Grade-X   V-III Sindhi		
• Complete the given	sentence by choosing approp	priate word.
The rich mar	n saw the lame begger	along the road.
gallop	<b>(A)</b>	
claim	B	
utter	©	
limp	<b>(D)</b>	
10. The opposite of the	following word is	
	Permanent	
brief	<b>(A)</b>	
passing	B	
long term	©	
temporary	<b>(D)</b>	

Page   10 of 40 (SAS – ESSP – Assessment I	Feb – Mar 2019) Grade-X   V-III Sindhi
<b>11.</b> The poem "A Nation's Strength" i	is written by
Robert Louis Stevenson	<b>(A)</b>
Ralph Waldo Emerson	B
Louis I. Newman	©
Julia Carney	<b>(</b> )
<b>12.</b> Choose the correct option for the f	following question.
Necessary quality of	f good teachers is
thirst for knowledge	<b>(A)</b>
thirst for money	®
thirst for status	©
thirst for fame	<b>(1)</b>

Page   11 of 40 (SAS – ESSP – Assessment Feb – Mar 2019) Grade-X   V-III Sindhi
<b>13.</b> Write an application to your class teacher and ask him/her to arrange a
documentary session on the topic "Heat" which you discussed in your last
Physics class.
(Marks 05)

Page | 12 of 40 (SAS – ESSP – Assessment Feb – Mar 2019) Grade-X | V-III Sindhi

**14.** Read the following paragraph and answer the given questions.

(Marks 05)

#### **Neil Armstrong**

Astronaut Neil Armstrong developed a fascination with flight at an early age and earned his student pilot's license when he was 16. In 1947, Armstrong began his studies in aeronautical engineering at Purdue University. A few years later, Armstrong joined the National Advisory Committee for Aeronautics (NACA). Armstrong joined the astronaut program, and he served as the command pilot for his first mission, Gemini VIII. He and fellow astronaut David Scott were launched into the earth's orbit on March 16, 1966. At 10:56 PM, Armstrong exited the Lunar Module. He said, "That's one small step for man, one big leap for mankind," as he made his famous first step on the moon. For about two and a half hours, Armstrong and Aldrin collected samples and conducted experiments. They also took photographs, including their own footprints. Returning on July 24, 1969, the Apollo 11 craft came down in the Pacific Ocean west of Hawaii. Armstrong received many awards for his efforts, including the Medal of Freedom and the Congressional Space Medal of Honor. In 2005 his authorized biography came out. "First Man: The Life of Neil A. Armstrong" was written by James R. Hansen. Armstrong underwent a heart bypass operation in August 2012. A few weeks later, on August 25, 2012, at the age of 82, Neil Armstrong died in Ohio.

ge   13	3 of 40 (SAS – ESSP – Assessment Feb – Mar 2019) Grade-X   V-III Sindhi	
i)	What was the profession of Neil Armstrong?	
ii)	In which university Neil Armstrong started his studies?	
iii)	) What did he say when he landed on moon?	
iv)	What is the name of biography written on Neil Armstrong?	

Page   14 of 40 (SAS – ESSP – Assessment Feb – Mar 2019) Grade-X   V-III Sindhi	
15. Convert the following sentences into Passive Voice.  (Marks 03)	
(Maras vs)	
She is working on her project.	
	_
	_
They are watching the movie.	
	_
	_
We eat whole pizza in the restaurant.	
	_
	_

Page   15 of 40 (SAS – ESSP – Assessment Feb – Mar 2019) Grade-X   V-III Sindhi
Tugo   10 of 10 (bris Ebb) Tibbobbilent 100 Mill 2017) Stade II   V III billain
<b>16.</b> Write an essay of 120 words on "The importance of reading about history".
(Marks 05)

Page   16 of 40 (SAS – ESSP – Assessment Feb – Mar 2019) Grade-X   V-III Sindhi
"Rough Work"

Page | 17 of 40 (SAS – ESSP – Assessment Feb – Mar 2019) Grade-X | V-III Sindhi

### **Mathematics**

**17.** If 
$$Y = \{a, b\}$$
 and  $Z = \{1\}$  then  $Y \times Z =$ \_\_\_\_\_\_.

يوءِ 
$$Z=\{1\}$$
 ۽  $Y=\{a,b\}$ تہ پوءِ.  $X\times Z=$  .

Ø

A

 $\{(a, 1)\}$ 

**B** 

 $\{(b, 1)\}$ 

**©** 

 $\{(a,1),(b,1)\}$ 

(I)

**18.** If 
$$F = \{x, y\}$$
 and  $G = \{y, z\}$ , then  $G \Delta F = \underline{\hspace{1cm}}$ .

ي ته پوءِ 
$$\mathrm{G}=\{y,z\}$$
 ۽  $\mathrm{F}=\{x,y\}$  تہ پوءِ  $\mathrm{G}=\{x,z\}$  .

{ }

A

{*y*}

B

 $\{x, z\}$ 

**©** 

 $\{x, y, z\}$ 

Page | 18 of 40 (SAS – ESSP – Assessment Feb – Mar 2019) Grade-X | V-III Sindhi

**19.** If (s-2)(s-7) = 0, then s =\_\_\_\_.

ي ته پوءِ. (s-2)(s-7)=0 ته پوءِ .19 s=

{2, 7}

A

 $\{-2, 7\}$ 

B

 $\{2, -7\}$ 

**©** 

 $\{-2, -7\}$ 

**(D**)

**20.** If  $M = \begin{bmatrix} 5 & -1 \\ 2 & -3 \end{bmatrix}$ , then  $Adj. M = \underline{\hspace{1cm}}$ .

ي يوءِ  $M = \begin{bmatrix} 5 & -1 \\ 2 & -3 \end{bmatrix}$ تہ پوءِ .20  $Adj. M = \underline{\qquad}$ 

 $\begin{bmatrix} -3 & 1 \\ -2 & 5 \end{bmatrix}$ 

A

 $\begin{bmatrix} 3 & 1 \\ 2 & -5 \end{bmatrix}$ 

 $^{\odot}$ 

 $\begin{bmatrix} -3 & 2 \\ 1 & -5 \end{bmatrix}$ 

©

 $\begin{bmatrix} 5 & -1 \\ -2 & -3 \end{bmatrix}$ 

**21.** When  $P = x^3 - 3$ ,  $Q = 3x^2 + 5$  and  $R = 7x^2$ , then the value of the following would be

$$Q = 3x^2 + 5$$
 ,  $P = x^3 - 3$  جڏهن .21 جڏهن  $R = 7x^2$ 

$$P + Q + R$$

$$x^3 + 4x^2 - 2$$

$$x^3 - 5x^2 - 3$$

$$x^3 + 10x^2 + 2$$

$$x^3 + 12x^2 + 8$$

- (D)
- 22. When  $V_i = 0$  metres/sec, t = 5 sec, a = 4 metres/sec<sup>2</sup>, then  $V_f =$ \_\_\_\_\_.

$$t=5$$
. ميٽر في سيڪنڊ،  $V_i=0$  ميٽر في سيڪنڊ ميٽر  $a=4$  ميٽر في سيڪنڊ اسڪوائر جي تہ  $V_f=\underline{\phantom{V_f}}$ 

$$V_f = V_i + at$$

20 metres /sec

A

20 ميٽر في سيڪنڊ

26 metres /sec

B

26 ميٽر في سيڪنڊ

32 metres /sec

**©** 

32 ميٽرفي سيڪنڊ

44 metres /sec

**①** 

44 ميٽر في سيڪنڊ

Page | 20 of 40 (SAS – ESSP – Assessment Feb – Mar 2019) Grade-X | V-III Sindhi

23. Divide.

23. وند كريو

$$\frac{\sqrt{16}}{\sqrt{4}} = \underline{\hspace{1cm}}$$

2

**(A)** 

12

B

 $\sqrt{12}$ 

**©** 

 $\sqrt{20}$ 

**(** 

**24.** Simplify the following exponential form.

24. هيٺ ڏنل سگه نما کي سادي صورت ۾ آڻيو.

$$(8a^{-9}b^6)^{\frac{1}{3}} = \underline{\qquad}$$
.

 $(a^{-6}b^3)$ 

A

 $(2a^{-3}b^2)$ 

B

 $(3a^{-6}b^3)$ 

**©** 

$$(5a^{-3}b^9)$$

**25.** Identify the factors of the following expression.

25. هيٺ ڏنل اظهار جي جزن جي سڃاڻپ ڪريو.

$$a^3 - 64b^3 =$$
\_\_\_\_\_.

$$(a-4b)(a^2+4ab+16b^2)$$

$$(a+4b)(a^2+4ab-16b^2)$$

$$^{\odot}$$

$$(a-2b)(a^2+8ab+16b^2)$$

$$(a+2b)(a^2-8ab+16b^2)$$

- **(**
- **26.** The LCM of  $2y^2z$  and  $x^2z^2$  would be
- جي ننڍي عام ڀڃ اپت ٿيندي $x^2z^2$  ۽  $2y^2z$  .26

2z

A

$$2x^2yz$$

B

$$2xyz^2$$

**©** 

$$2x^2y^2z^2$$

Page   22 of 40 (SAS – ESSP – Assessment F	Feb – Mar 2019) Grade-X   V-III Sindhi
<b>27.</b> The value of "y" in the following logarithmic form would be	27. هيٺ ڏنل لاگرٿم ۾ " $y$ " جو مله ٿيندو
$\log_2$	$_{y}$ 27 = 3
1	<b>(A)</b>
3	B
4	©
6	<b>(</b> )
<b>28.</b> Identify the law of logarithm from the following.	28. هيٺ ڏنل ۾ لاگرٿم جي قانون جي سڃاڻپ ڪريو.
$\log_a \frac{m}{n} = 1$	•
$\log_a m \times \log_a n$	<u>A</u>
$105a$ $m \times 105a$ $m$	
$\log_a m \div \log_a n$	B
$\log_a m + \log_a n$	©
$\log_a m - \log_a n$	<b>(D)</b>

23 (	of <b>40</b>	(SAS -	- ESSP -	– Assessn	nent Fe	b –	Mar 2019	9)	Grade-X   V-III Sin	ndhi	
giv	en in	the fo	ollowin	g, then	ces		۽ پوءِ	ن تہ	•	_	
				$A = \begin{bmatrix} 1 \\ 1 \end{bmatrix}$	2 3 <sub>]</sub>	, <i>E</i>	$B = \begin{bmatrix} 1 \\ 1 \end{bmatrix}$		$\binom{2}{3}$		
$\begin{bmatrix} 3 \\ 6 \end{bmatrix}$	5 <sub>4</sub>					A	)				
_						B	)				
	_					©	)				
						<b>(</b>	)				
<b>-4</b>	-2										
inc	hes)	of 10 s	student	ts in a cl	ass,		پن ۾ر) ڏنل	(انچ			.30
			34,	, 37, 40,	, 38, 3	9, 4	<b>13, 35,</b> 4	42	, 36, 41		
43						A	)				
40						B	)				
38.5	í					©	)				
35.5	j					<b>(</b>	)				
	Wh giv A > [3 6 [2 5 [5 6 [1 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	When $A$ given in $A \times B = \begin{bmatrix} 3 & 5 \\ 6 & 4 \end{bmatrix}$ $\begin{bmatrix} 2 & 6 \\ 5 & 3 \end{bmatrix}$ $\begin{bmatrix} 5 & 13 \\ 6 & 13 \end{bmatrix}$ $\begin{bmatrix} 1 & 1 \\ 4 & -2 \end{bmatrix}$ Followi inches) the med be	When $A$ and $B$ given in the for $A \times B = $ $\begin{bmatrix} 3 & 5 \\ 6 & 4 \end{bmatrix}$ $\begin{bmatrix} 2 & 6 \\ 5 & 3 \end{bmatrix}$ $\begin{bmatrix} 5 & 13 \\ 6 & 13 \end{bmatrix}$ $\begin{bmatrix} 1 & 1 \\ 4 & -2 \end{bmatrix}$ Following are inches) of 10 sthe median of be $43$ $40$ $38.5$	When $A$ and $B$ are twe given in the following $A \times B = $ $\begin{bmatrix} 3 & 5 \\ 6 & 4 \end{bmatrix}$ $\begin{bmatrix} 2 & 6 \\ 5 & 3 \end{bmatrix}$ $\begin{bmatrix} 5 & 13 \\ 6 & 13 \end{bmatrix}$ $\begin{bmatrix} 1 & 1 \\ 4 & -2 \end{bmatrix}$ Following are the herinches) of 10 students the median of their here we have the median of their here.  34.	When $A$ and $B$ are two matrigiven in the following, then $A \times B = $ $A = \begin{bmatrix} 3 & 5 \\ 6 & 4 \end{bmatrix}$ $\begin{bmatrix} 2 & 6 \\ 5 & 3 \end{bmatrix}$ $\begin{bmatrix} 5 & 13 \\ 6 & 13 \end{bmatrix}$ $\begin{bmatrix} 1 & 1 \\ 4 & -2 \end{bmatrix}$ Following are the heights (ir inches) of 10 students in a clather median of their heights where the statement of	When $A$ and $B$ are two matrices given in the following, then $A \times B = $ $A = \begin{bmatrix} 2 & 3 \\ 5 & 1 \end{bmatrix}$ $\begin{bmatrix} 3 & 5 \\ 6 & 4 \end{bmatrix}$ $\begin{bmatrix} 2 & 6 \\ 5 & 3 \end{bmatrix}$ $\begin{bmatrix} 5 & 13 \\ 6 & 13 \end{bmatrix}$ $\begin{bmatrix} 1 & 1 \\ 4 & -2 \end{bmatrix}$ Following are the heights (in inches) of 10 students in a class, the median of their heights would be $34,37,40,38,33$ $43$ $40$ $38.5$	When $A$ and $B$ are two matrices given in the following, then $A \times B = $ $A = \begin{bmatrix} 2 & 3 \\ 5 & 1 \end{bmatrix}, A$ $\begin{bmatrix} 3 & 5 \\ 6 & 4 \end{bmatrix}$ $\begin{bmatrix} 2 & 6 \\ 5 & 3 \end{bmatrix}$ $\begin{bmatrix} 5 & 13 \\ 6 & 13 \end{bmatrix}$ $\begin{bmatrix} 1 & 1 \\ 4 & -2 \end{bmatrix}$ Following are the heights (in inches) of 10 students in a class, the median of their heights would be $34,37,40,38,39,43$ $43$ $40$ $8$ $38.5$	When $A$ and $B$ are two matrices given in the following, then $A \times B =$ $A = \begin{bmatrix} 2 & 3 \\ 5 & 1 \end{bmatrix}, B = \begin{bmatrix} 1 \\ 1 \end{bmatrix}$ $\begin{bmatrix} 3 & 5 \\ 6 & 4 \end{bmatrix}$ $\begin{bmatrix} 2 & 6 \\ 5 & 3 \end{bmatrix}$ $\begin{bmatrix} 5 & 13 \\ 6 & 13 \end{bmatrix}$ $\begin{bmatrix} 1 & 1 \\ 4 & -2 \end{bmatrix}$ Following are the heights (in inches) of 10 students in a class, the median of their heights would be $34, 37, 40, 38, 39, 43, 35, 43$ $40$ $8$ $38.5$	When $A$ and $B$ are two matrices given in the following, then $A \times B =$ $A = \begin{bmatrix} 2 & 3 \\ 5 & 1 \end{bmatrix}, B = \begin{bmatrix} 1 \\ 1 \end{bmatrix}$ $\begin{bmatrix} 3 & 5 \\ 6 & 4 \end{bmatrix}$ $\begin{bmatrix} 2 & 6 \\ 5 & 3 \end{bmatrix}$ $\begin{bmatrix} 5 & 13 \\ 6 & 13 \end{bmatrix}$ $\begin{bmatrix} 1 & 1 \\ 4 & -2 \end{bmatrix}$ Following are the heights (in inches) of 10 students in a class, the median of their heights would be $34,37,40,38,39,43,35,42$ $43$ $40$ $8$ $38.5$	When $A$ and $B$ are two matrices given in the following, then $A \times B =$ $A = \begin{bmatrix} 2 & 3 \\ 5 & 1 \end{bmatrix}, B = \begin{bmatrix} 1 & 2 \\ 1 & 3 \end{bmatrix}$ $\begin{bmatrix} 3 & 5 \\ 6 & 4 \end{bmatrix}$ $\begin{bmatrix} 2 & 6 \\ 5 & 3 \end{bmatrix}$ $\begin{bmatrix} 5 & 13 \\ 6 & 13 \end{bmatrix}$ $\begin{bmatrix} 1 & 1 \\ 4 & -2 \end{bmatrix}$ $\begin{bmatrix} 1 & 1 \\ 4 & -2 \end{bmatrix}$ Following are the heights (in inches) of 10 students in a class, the median of their heights would be $34,37,40,38,39,43,35,42,36,41$ $43$ $40$ $8$ 38.5	given in the following, then $A \times B = $ . $A = \begin{bmatrix} 2 & 3 \\ 5 & 1 \end{bmatrix}, B = \begin{bmatrix} 1 & 2 \\ 1 & 3 \end{bmatrix}$ $\begin{bmatrix} 3 & 5 \\ 6 & 4 \end{bmatrix}$ $\begin{bmatrix} 2 & 6 \\ 5 & 3 \end{bmatrix}$ $\begin{bmatrix} 5 & 13 \\ 6 & 13 \end{bmatrix}$ $\begin{bmatrix} 1 & 1 \\ 4 & -2 \end{bmatrix}$ Following are the heights (in inches) of 10 students in a class, the median of their heights would be $34,37,40,38,39,43,35,42,36,41$ $34.37,40,38,39,43,35,42,36,41$ $40$ $8$ $38.5$

Page   24 of 40 (SAS – ESSP – Assessment Feb – Mar 2019) Grade-X   V-III Sindhi		
31. If $L = \{a, b\}$ and $M = \{c, d\}$ , then show that the following.	ن $\mathrm{M}=\{c,d\}$ ۽ $\mathrm{L}=\{a,b\}$ ت $\mathrm{M}=\{c,d\}$ ۽ ڪريو.	
(Marks 04	<u>"</u>	
$L \times M \neq M$		
<del>_</del> ··· <del>·</del> · ·		

Page   25 of 40 (SAS – ESSP – Assessment Fe	b – Mar 2019) Grade-X   V-III Sindhi
<b>32.</b> Eliminate "a" from the following equations by substitution method. Show steps.	32. هيٺ ڏنل مساوات ۾ مله وجهڻ جي طريقي سان "32. هيٺ ڏنل مساوات ۾ مله وجهڻ جي طريقي سان "22. هن دياريو. مرحلا ڏيکاريو.
(Ma	rks 04)
$x = \frac{3}{4}a,$	$y = \frac{2}{3}a$

Page   26 of 40 (SAS – ESSP – Assessment Feb	- Mar 2019) Grade-X   V-III Sindhi
<b>33.</b> Solve the following equations by	33. هيٺ ڏنل مساوات کي ڪريمرجي اصول تحت حل
using Cramer's rule. Show steps.	ڪريو. مرحلاڏيکاريو.
(Marl	xs 04)
2x + 3	v=5,
x + 2y	v=1.
-	
	_
	_

Page   <b>27</b> of <b>40</b> (SAS – ESSP – Assessment Fe	b – Mar 2019) Grade-X   V-III Sindhi
1	1
<b>34.</b> If $f \propto \frac{1}{g^2}$ and $f = 3$ when $g = 2$ ,	$g=2$ جڏھن تہ $f=3$ ۽ $f\propto rac{1}{g^2}$ جيڪڏھن ج
find the value of " $f$ " when $g = 4$ .	$g^{-}$ ته " $f$ " جوملهه لهوجڏهن ته $g=4$ . مرحلا
Show steps. $S = 1$	
	ڏيڪاريو.
(Ma	rks 04)

Page	e   28 of 40 (SAS	- ESSP - Asso	essment Feb –	- Mar 2019) Gi	rade-X   V-III S	Sindhi	
35	. In the given ta	hle the weigh	other of 50	#I: 50	No.		25
	students in a c				۾ هڪ ڪلاس جي		.33
				جي وزن جو مڌيان	۾ ) ڏنل آهي. انهن َ	وزن ( كلوگرام	
	the median of	meir weigni	s. Snow	-		لهو. مرحلاڏيکا	
	steps.				ريو	تهو. هرحار دیات	
			(Mark	s 05)			
	Weight	31-35	36-40	41-45	46-50	51-55	
	(in	31 33	30 40	41 43	40 30	31 33	
	,						
	kilograms)						
	وزن (ڪلوگرام ۾)						
	Number of	02	08	15	16	09	
	students						
	شاگردن جو تعداد						
	5,550 JP, (55,5 Cm)						_
_							

	Physics	
6. The ionized state of matter is call	led	<ul><li>أ. مادي جي آئيني حالت چورائيندي آهي</li></ul>
plasma.	<b>(A)</b>	پلازما.
liquid.	B	پاٹیاٺ.
solid.	©	نهرو.
gas.	<b>(</b> )	گیس.
7. Tensile stress is the stress that changes the objects	ري	َ.    ٽينسل جو دٻاءُ اهو دٻاءُ آهي جيڪو تبديل ڪر ڇڏيندو آهي ڪنهن بہ شيءِ
mass.	<b>(A)</b>	جو مايو.
length.	B	جومايو. جي ڊيگه. جو وزن. جو مقدار
weight.	©	<b>ج</b> و وزن.
volume.	<b>(</b>	جو مقدار.

Page	e   30 of 40 (SAS – ESSP – Assessment Fe	eb – N	Mar 2019) Grade-X   V-III Sindhi	
38.	Due to surface tension the shape of the rain drops are		سطحي ڇڪ جي ڪري مِينهَن جي ڦڙن جي شڪل هوندي آهي	.38
	oval.	A	بيضوي.	
	circular.	B	گول.	
	triangle.	©	ٽڪنڊي.	
	spherical.	<b>(</b>	گولائي.	
39.	Archimedes principle is applied to determine	Ç	آركمڊيز جو اصول لاڳو ٿيندو آهي معلوم ڪرڻ جي لاءِ	.39
	specific resistance.	A	مخصوص رڪاوٽ.	
	specific density.	B	مخصوص ركاوت. مخصوص گهاٽائي.	
	specific gravity.	©	مخصوص كشش ثقل.	
	specific heat.	<b>(</b>	مخصوص گرمي.	

Page	31 of 40 (SAS – ESSP – Assessment Fe	eb – Mar 2019) Grade-X   V-III Sindhi	
40.	The process in which heat is transferred from one part of the body to the other by interaction of electron is called	ممل جنهن ۾ گرمي جسم جي هڪ حصي کان حصي ڏانهن اليڪٽرانن جي ڪري منتقل ٿيندي . اها آهي	ېئي
	conduction.	ائن. (۵)	پَسرا
	convection.	ھ جي وھڪ.	گرم
	expansion.	©	وڌاءُ
	radiation.	ی جو پکڙجڻ.	گرم
41.	The branch of physics which is concerned with the properties of highly ionized atoms forming a mixture of bare nuclei and electrons is called	س جي اها شاخ جنهن ۾ خالي مرڪز ۽ ڪٽرانن جي ميلاپ ۽ وڌ کان وڌ برق پارن ۾ ورهايل ن جو اڀياس ڪيو وڃي تہ ان کي چئبو آهي	اليد
	mechanics.	<u>کیات.</u>	<b>ح</b> رڪَ
	plasma physics.	کیات. مافزکس.	پلازه
	nuclear physics.	ري فزكس. © شقناطيسيت. ©	جوهر
	electromagnetism.	مقناطیسیت.	برق ا

Page	e   <b>32</b> of <b>40</b> (SAS – ESSP – Assessment Fe	b – Mar 2019) Grade-X   V	V-III Sindhi	
42.	Find the volume of a rectangular box, the length of which is 2cm, breadth is 2cm and height is 1cm.	قدار معلوم كريوجڏهن ان نر 2 ۽ اوچائي 1 س مر هجي.	•••	.42
	$3 \text{ cm}^3$	<b>(A)</b>		
	4 cm <sup>3</sup>	B		
	5 cm <sup>3</sup>	©		
	6 cm <sup>3</sup>	10		
43.	Identify the state of equilibrium in the cone as shown below.	ل جي توازن واري حالت جي	. هيٺ ڏنل مخروطي شڪ سڃاڻپ ڪريو.	.43
	unstable equilibrium	<b>(A)</b>	غير پائيدار توازن	
	dynamic equilibrium	B	متحرك توازن	
	neutral equilibrium	©	غيرجانبدار توازن	
	stable equilibrium	0	پائیدار توازن	

Page	33 of 40 (SAS – ESSP – Assessment Fe	b – Mar 2019) Grade-X   V-III Sindhi	
44.	Ability of a body to do work due to its motion is called	. ڪنهن بہ جسم جي ڪر ڪرڻ جي صلاحيت ان جي حرڪت ڪرڻ جي ڪري چَورائيندي آهي	.44
	heat energy.	گرمي جي توانائي.	
	kinetic energy.	ت ت ت ت ت عند الله ع	
	potential energy.	مخفي توانائي.	
	gravitational energy.	ڪشش ثقل جي توانائي.	
45.	The work done by the machine on the weight is called output. If a machine moves a load <b>W</b> through a distance <b>h</b> then output would be given by the formula.	. مشين جو وزن تي كر كرڻ كي حاصل ٿيل كر (out put) چورائيندو آهي. جيكڏهن مشين بارَ W كي كنهن مشين بارَ W كي كنهن مفاصلي تي حركت ڏئي ٿي تہ حاصل ٿيل كر (out put) مو فارمولو ٿيندو	.45
	Output = W /h	<b>(A)</b>	
	Output = W x h	®	
	Output = h / W	©	
	Output = W x h x h	<b>(1)</b>	

Page	e   34 of 40 (SAS – ESSP – Assessment Fe	eb – N	/ar 2019) Grade-X   V-III Sindhi	
46.	. A perfect machine has efficiency of	f	هڪ بلڪل صحيح مشين جي ڪارڪردگي هميش رهندي آهي	.46
			رهندي آهي	
	70%	<b>(A)</b>		
	80%	B		
	90%	©		
	100%	<b>(</b>		
47.	Identify the instrument shown in the diagram given below.	e	هيٺ شڪل ۾ ڏيکاريل اوزار جي سڃاڻپ ڪريو.	.47
	2 4 6 8 1 2 4 6 8 2 2 4 6 8 2 1 2 4 6 8 2 2 4 6 8 1 2 4 6 8 2 2 4 6 8 1 2 4 6 8 2 2 4 6 8 1 2 4 6 8 1 2 2 4 6 8 1 2 2 4 6 8 1 2 4 6 8 1 2	्रेम्म्यामाम्यामाम्यामाम्यामाम्यामाम्यामाम्यामाम्यामाम्यामाम्यामाम्यामाम्यामाम्यामाम्यामाम्यामाम्यामाम्यामाम्य	прини прин	
	vernier callipers	<b>(A)</b>	ورنيئر كيليپر	
	physical balance	B	طبعي تارازي طبعي تارازي ميئرنگ سيليندر	
	measuring cylinder	©	میئرنگسیلینڊر	
	micrometer screw gauge	<b>(</b>	مائڪروميٽر اسڪريو گيج	

Page	35 of 40 (SAS – ESSP – Assessment Fe	eb – Ma	r 2019) Grade-X   V-III Sindhi	
48.	Identify the type of lever shown in the picture below.	0	هيٺ ڏيکاريل تصوير ۾ ليور/ بيرم جي قسم جي سياڻپ ڪريو.	.48
	first kind	(A)	پهرئين قسم جو	
	second kind	B	ېئين قسم جو	
	third kind	©	ٽئين قسم جو	
	fourth kind	<b>(</b>	چوٿين قسم جو	
49.	The force applied on the machine is called	S	مشين تي جيڪا طاقت لڳائي ويندي آهي، اها چَورائيندي آهي	.49
	fulcrum.	A	تُوتُي/ فلكرم .	
	effort.	B	كوشش.	
	lever.	©	ليور/ بيرم.	
	load.	<b>(</b>	بار.	

Page	36 of 40 (SAS – ESSP – Assessment Feb –	Mar 2019) Grade-X   V-III Sindhi	
50.	Answer the following questions. (Mark	هيٺ ڏنل سوالن جا جواب لکو. ( 0.5	.50
i)	State Newton's First law of motion and explain it with the help of an example of a book lying on a table.	نيوٽن جو حرڪت جو پهريون قانون لکو ۽ ان کي ڪتاب کي ميز تي هئڻ واري مثال وسيلي بيان ڪريو.	(i
	Explain why Newton's first law of motion is also called as the law of inertia?	نيوٽن جو حرڪت جو پهريون قانون اچلتا/ انرشيا جو قانون به چَورائيندو آهي، وضاحت ڪريو ته ڇو؟	(ii 
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Page	<b>37</b> of <b>40</b>	(SAS –	ESSP -	- Assessn	nent Feb	– Mar 2	019) Gı	ade-X	V-III S	Sindhi	
51.	A cyclis seconds. motor cy	Find t			è					ڪ موٽر سائيد پيڪنڊن ۾ طئ	<b>u</b>
					(Marl	xs 03)				علوم کريو.	۵
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Page   38 of 40 (SAS – ESSP – Assessment Feb – Mar 2019) Grade-X   V-III Sindhi				
<b>52.</b> Define the following terms.	52. هيٺ ڏنل اصطلاحن جي وصف لکو.			
(Marks 04				
Stress				
511 688	<b>ڇ</b> ڪَ			
Strain	بگاڙ			
	<b>,</b>			
Vormela Madulus				
Young's Modulus	ينگجو ماڊيولس			
Elasticity	لچڪ			
-				

Page   <b>39</b> of <b>40</b> (	SAS – ESSP – Assessment F	eb – Mar 2019) Grade-X   V-III Sindhi	
<b>52 5 1 . .</b>			
<b>53.</b> Explain T	Forque or moment of force	ر.ي ر و.ي و	.53 j
	(M	arks 01)	
<b>54.</b> Differenti	ate between Scalar and	ة منطة مترام ما ترانك	L 51
vector quantity.			
	(M	arks 04)	
	Scalar طرفي مقدار	Vector بي طرفي مقدار	
i)	طرقي مقدار	بي طرفي مقدار	
ii)			

