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

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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>		
<ul> <li>All questions carry equal marks.</li> </ul>	<ul> <li>سپني سوالن تي هڪ جيتريون مارڪون رکيل</li> <li>آهن.</li> </ul>		
<ul> <li>Do not fill more than one option for one question. Multiple options will be considered wrong.</li> </ul>	<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>		
<ul> <li>Fill correct options according to the following example.</li> </ul>	<ul> <li>جوابن کي هيٺ ڏنل مثال مطابق چڱيءَ ريت ڀريو.</li> </ul>		
(A) (B) (C) (D)			
<ul> <li>Pencil should be used to fill the answers.</li> </ul>	<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.	■ پيپر ۾ ڏنل هر هڪ حصي کي ڏنل وقت مطابق حل ڪريو.		
<ul> <li>Use the given blank page for rough work.</li> </ul>	<ul> <li>رف كر لاء ذنل خالي صفحو استعمال كريو.</li> </ul>		

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# INSTRUCTIONS FOR THE STUDENT

شاگردجي لاءِ هداين 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>پٽي 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>

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lage   Tol To (DAD LDDI ADD	Page   4 of 40 (SAS – ESSP – Assessment Feb – Mar 2019) Grade-X   V-II Sindhi		
	MCQ Practice		
1. Name of our country is		1. اسانجي ملڪ جو نالو آهي	
Kenya.	A	كينيا.	
Pakistan.	B	پاڪستان.	
Malaysia.	©	ملائيشيا.	
Indonesia.	<b>(D)</b>	اندونیشیا.	
<b>2.</b> Add.		2. جوڙ ڪريو.	
	2 + 2 =		
4	A		
5	B		
6	©		
7	0		

	English
Complete the following	ng sentence.
	I have lived here 2013.
or	<b>(A)</b>
rom	B
since	©
tarting	<b>(D)</b>
Choose the correct spe	elling.
eached	<b>(A)</b>
echeed	B
eachad	©
eeched	(D)

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3.	Read the given sentence and identif	fy the adjective.
		s very cloudy.
	the	A
	day	B
	very	©
	cloudy	<b>(D)</b>
4.	King Faisal became the governor of	f Hijaz at the age of?
	Twenty	A
	Twenty one	B
	Twenty four	©
	Twenty Six	<b>(D)</b>

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5.	The synonym of the word "meadov	v" is		
	wicked.	<b>(A)</b>		
	a brief look.	B		
	a grassy field.	©		
	a common land.	<b>(D)</b>		
6.	Identify the meaning of the word "c	clasp" in the following lines.		
	And where the old are young again I'll clasp my mother's hands			
	fold her hands	(A)		
	hold her hands	B		
	release her hands	©		
	squeeze her hands	0)		

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7.	Read the given sentence and identify	fy the speech.
	He said the	hat he is tired.
	Direct	A
	Indirect	B
	Negative	©
	Interrogative	(D)
8.	The following idiom means	
	"To bro	eak the ice"
	to have a grievance	A
	to overcome shyness	®
	to go around the topic	©
	to withdraw from an argument	(1)

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Complete the given sentence b	by choosing appro	opriate word.
The rich man saw the l	ame begger	along the road.
limp	A	
utter	B	
claim	©	
gallop	<b>(</b>	
The opposite of the following	word is	
	Temporary	
brief	<b>(A)</b>	
passing	B	
permanent	©	
momentary	0	
	Complete the given sentence by The rich man saw the less limp of the claim gallop.  The opposite of the following brief passing permanent	utter B claim © gallop D The opposite of the following word is  Temporary brief A passing B permanent ©

of 40 (SAS – ESSP – Assessment Fe	eb – Mar 2019) Grade-X   V-II Sindhi
e poem "A Nation's Strength" is	written by
lia Carney	<b>(A)</b>
ouis I. Newman	B
lph Waldo Emerson	©
bert Louis Stevenson	(D)
noose the correct option for the fo	ollowing question.
Necessary quality of	good teachers is
rst for fame	A
rst for status	B
rst for money	©
rst for knowledge	<b>(D)</b>
	ne poem "A Nation's Strength" is lia Carney ruis I. Newman alph Waldo Emerson bert Louis Stevenson hoose the correct option for the for Necessary quality of rst for fame rst for status rst for money rst for knowledge

-	44 040	(C. C. D.C.D.		3.5 3010	G 1 TT	TT TT G: 11 :
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**13.** 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.

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i) Wh	nat was the profession of Neil Armstrong?
<b>ii</b> ) In v	which university Neil Armstrong started his studies?
iii)Wh	nat did he say when he landed on moon?
_	
iv) Wh	nat is the name of biography written on Neil Armstrong?

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14 337.4
<b>14.</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)

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15. Convert the following sentences into Passive Voice.  (Marks 03)
She is working on her project.
They are watching the movie.
We eat whole pizza in the restaurant.

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16.	Write	e an	essay	of 120	words on "The	importance of reading about history".
					(Marl	xs 05)
						_

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2 ugo   20 01 10 (0110 Door 110000000000000000000000000000000000
"Rough Work"
Hough Work

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#### **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** 

 $\{(b, 1)\}$ 

**©** 

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

**(**1)

**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

 $\{x,z\}$ 

**©** 

 $\{x,y,z\}$ 

**(** 

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<b>19.</b> The value of "y" in the following logarithmic form would be	ر " y" جوهله ٿيندو	19. هيٺڏنل لاگرٿر ۾
log	<sub>y</sub> 27 = 3	
1	<b>(A)</b>	
3	B	
4	©	
6	<b>(D)</b>	
	_	
<b>20.</b> Identify the law of logarithm from the following.	<i>ر جي</i> قانون <i>جي سڃ</i> اڻپ ڪريو.	20. هيٺڏنل ۾ لاگرٿ
$\log_a \frac{m}{n} =$	·	
$\log_a m \times \log_a n$	A	
$\log_a m \div \log_a n$	B	
$\log_a m + \log_a n$	©	
$\log_a m - \log_a n$	<b>(</b> )	

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**21.** Divide. 21. ونڊ ڪريو.

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

2

**(A)** 

12

(B)

 $\sqrt{12}$ 

**©** 

 $\sqrt{20}$ 

**(** 

**22.** Simplify the following exponential form.

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

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

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

A

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

 $^{\odot}$ 

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

**©** 

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

**①** 

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

$${\bf Q}=3x^2+5$$
 .  ${\bf P}=x^3-3$  جڏهن .  ${\bf R}=7x^2$ 

$$P + Q + R$$

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

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

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

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

- **(D**)
- **24.** 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 في سيڪنڊ اسڪوائر جي تہ  $a=4$  پوءِ $V_f=$ 

$$V_f = V_i + at$$

20 metres /sec

A

20 ميٽر في سيڪنڊ

26 metres /sec

 $^{\odot}$ 

26 ميٽر في سيڪنڊ

32 metres /sec

**©** 

32 ميٽرفي سيڪنڊ

44 metres /sec

**①** 

44 ميٽرفي سيڪنڊ

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ugo   =1 01 .0	(SIB ESSI IISSESSMENTIES WAR 2017) SIAGE II	, II Siligili

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

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

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

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

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

**(D**)

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

**26.** The LCM of  $2y^2z$  and  $x^2z^2$  would

جي ننڍي عام ڀڃ اپت ٿيندي
$$x^2z^2$$
 ۽  $2y^2z$  . $26$ 

2z

be

A

$$2x^2yz$$

B

$$2xyz^2$$

**©** 

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

**(** 

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

تہ پوءِ. (s-2)(s-7)=0 تہ پوءِ. s=

{2, 7}

A

 $\{-2, 7\}$ 

B

 $\{2, -7\}$ 

**©** 

 $\{-2, -7\}$ 

**(**D)

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

تہ پوءِ  $M = \begin{bmatrix} 5 & -1 \\ 2 & -3 \end{bmatrix}$ تہ پوءِ .28  $Adj. M = \underline{\qquad}$ 

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

A

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

 $^{\odot}$ 

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

©

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

**(** 

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29.	giv	en in t	and <i>B</i> are twhe following			۽ پوءِ		-		جڏهن هيٺ 	
				$A = \begin{bmatrix} 2 & 3 \\ 5 & 2 \end{bmatrix}$	$\begin{bmatrix} 3 \\ 1 \end{bmatrix}$ , E	$B = \begin{bmatrix} 1 \\ 1 \end{bmatrix}$	$\frac{2}{3}$				
	$\begin{bmatrix} 3 \\ 6 \end{bmatrix}$	<sup>5</sup> <sub>4</sub> ]			A	)					
	$\begin{bmatrix} 2 \\ 5 \end{bmatrix}$	6 3			B						
	[ <sup>5</sup>	13 <sub>13</sub> ]			©	)					
	$\begin{bmatrix} 1 \\ 4 \end{bmatrix}$	$\begin{bmatrix} 1 \\ -2 \end{bmatrix}$			<b>(</b>	)					
30.	inc	hes) of	g are the heif 10 students in of their he	_	l	پن ۾) ڏنل		•		هيٺ هڪ ، آهن. انهن -	.30
			34,	37, 40, 38,	39, 4	<b>13, 35</b> , 4	12, 36,	41			
	43				A	)					
	40				B	)					
	38.5				©	)					
	35.5				<b>(</b>	)					

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<b>31.</b> If $L = \{a, b\}$ and $M = \{c, d\}$ , then show that the following.	ته $M = \{c,d\}$ ۽ $L = \{a,b\}$ ته. $M = \{c,d\}$ ۽ $L = \{a,b\}$ ته هيٺ ڏنل کي ثابت ڪريو.
(Ma	arks 04)
$L \times M$	$\neq M \times L$

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	1	1					1	
32.	If $f \propto \frac{1}{a}$	$\frac{1}{2}$ and $f = 3$	8  when  g =	2, g =	ِجڏهن تہ 2 =	$f = 3  \mathfrak{f}$	$\propto \frac{-}{a^2}$ يڪڏهن	.32
	find the v	alue of "f"	when $q = 4$	ł.	<i>ع</i> د (1 =	، حڏهن تـ 4	و ''f''جوملهه له	ت
	Show step		0		و. سر مار	و بعد عل هـ ۱		
				Marila 04			يكاريو	()
			(1)	Marks 04	·)			

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33. Solve the following equations by ينل مساوات كي كريمرجي اصول تحتحل يعناه . Shayy stans	.33 هيٺ
يو. مرحلاڏيکاريو.	
(Marks 04)	
2x + y = 5,	
x + 2y = 1.	
Y	

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<b>34.</b> Eliminate " <i>a</i> " from the following equations by substitution method. Show steps.	34. هيٺ ڏنل مساوات ۾ مله وجهڻ جي طريقي سان "34. هيٺ ڏنل مساوات ۾ مله وجهڻ جي طريقي سان "24" ديڪاريو.
(Mar	rks 04)
$x = \frac{3}{4}a,$	$y = \frac{2}{3}a$

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35.	In the given ta	ble, the wei	ghts of 50	0 5 شاگرد: ⊶	ر ھڪ ڪلاس جي	ه بن ڏنا حدما ۔	35
	students in a cithe median of steps.	lass is show	n. Find		۾ ) ڏنل آهي. انهن		.55
			(Marl	ze 05)			
	Weight (in kilograms)	31-35	36-40	41-45	46-50	51-55	
	وزن (ڪلوگرام ۾ ) Number of students شاگردن جو تعداد	02	08	15	16	09	

### **Physics**

- **36.** Find the volume of a rectangular box, the length of which is 2cm, breadth is 2cm and height is 1cm.
- 36. هڪ مستطيل دېي جو مقدار معلوم ڪريو جڏهن ان جي ڊيگهہ 2 س م، ويڪر 2 ۽ اوچائي 1 س  $\alpha$  هجي.

 $3 \text{ cm}^3$ 

**(A)** 

 $4 \text{ cm}^3$ 

(B)

 $5 \text{ cm}^3$ 

**©** 

 $6 \text{ cm}^3$ 

- **(D**)
- **37.** Identify the state of equilibrium in the cone as shown below.
- 37. هيٺ ڏنل مخروطي شڪل جي توازن واري حالت جي سڃاڻي ڪريو.



- unstable equilibrium
- A

غير پائيدار توازن

- dynamic equilibrium
- $^{\mathbb{B}}$

متحرك توازن

neutral equilibrium

**©** 

غيرجانبدار توازن

stable equilibrium

**(D)** 

پائیدار توازن

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38.	Ability of a body to do work due to its motion is called		ڪنهن بہ جسم جي ڪم ڪرڻ جي صلاحيت ان جي حرکت ڪرڻ جي ڪري چَورائيندي آهي	.38
	heat energy.	<b>(A)</b>	گرمي جي توانائي.	
	kinetic energy.	B	گرمي جي توانائي. حركي توانائي.	
	potential energy.	©	مخفي توانائي.	
	gravitational energy.	<b>(</b>	ڪشش ثقل <i>جي</i> توانائي.	
39.	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.	V	مشين جو وزن تي كم كرڻ كي حاصل ٿيل كم (out put) چورائيندو آهي. جيكڏهن مشين بار V كي كنهن مفاصلي تي حركت ڏئي ٿي تہ حاصل ٿيل كم (out put) جو فارمولو ٿيندو	.39
	Output = W /h	<b>(A)</b>		
	Output = W x h	B		
	Output = h / W	©		
	Output = W x h x h	<b>(</b>		

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40.	A perfect machine has efficiency of	یشہ f	هڪ بلڪل صحيح مشين جي ڪارڪردگي هم رهندي آهي	.40
			ر عدي ، بي	
	70%	<b>(A)</b>		
	80%	B		
	90%	©		
	100%	<b>(</b>		
41.	Identify the instrument shown in the diagram given below.	e .	هيٺ شڪل ۾ ڏيکاريل اوزار جي سڃاڻپ ڪريو	.41
	1	, , , , , , , , , , , , , , , , , , ,	В 4 2 4 6 8 5 2 4 6 8 6 12 13 14 15 6.62>m В <sub>P</sub> ∨ В <sub>роп</sub> (В	
	vernier callipers	A	ورنيئر كيليپر	
	physical balance	B	طبعي تارازي ميئرنگ سيلينڊر	
	measuring cylinder	©	میئرنگسیلیندر	
	micrometer screw gauge	<b>(</b>	مائڪروميٽراسڪريو گيج	

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42.	Identify the type of lever shown in the picture below.	سوير ۾ ليور/ بيرم جي قسم جي	هيٺ ڏيکاريل تص سڃاڻپ ڪريو.	.42
	first kind	A A	ر ال	
	second kind	B	پهرئين قسم جو 	
			ٻئين قسم جو	
	third kind	©	ٽئين قسم جو	
	fourth kind	<b>(D)</b>	چوٿين قسم جو	
43.	. The force applied on the machine is called	طاقت لڳائي ويندي آهي. اها	مشين تي جيڪا چَورائيندي آهي	.43
	fulcrum.	<b>(A)</b>	تُوتِّي/ فلكرم.	
	effort.	B	كوشش.	
	lever.	©	ليور/ بيرم.	
	load.	<b>(D)</b>	باز	

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44.	The ionized state of matter is called	l	مادي جي آئيني حالت چَورائيندي آهي	.44			
	plasma.	A	پلازما.				
	liquid.	B	پاڻياٺ.				
	solid.	©	نهرو.				
	gas.	<b>(</b>	گیس.				
45.	Tensile stress is the stress that changes the objects		ٽينسل جو دٻاءُ آهو دٻاءُ آهي جيڪو تبديل ڪري ڇڏيندو آهي ڪنهن به شيءِ	.45			
	changes the objects		ڇڏيندو آهي ڪنهن بہ شيءِ				
	mass.	<b>(A)</b>					
		(A) (B)					
	mass.						
	mass. length.	B	ڇڏيندو آهي ڪنهن به شيءِ جو مايو. جي ڊيگهه. جو وزن. جو مقدار.				
	mass. length. weight.	<ul><li>B</li><li>C</li></ul>					
	mass. length. weight.	<ul><li>B</li><li>C</li></ul>					
	mass. length. weight.	<ul><li>B</li><li>C</li></ul>					
	mass. length. weight.	<ul><li>B</li><li>C</li></ul>					

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46.	Due to surface tension the shape of the rain drops are		سطحي ڇڪ جي ڪري مِينهَن جي ڦڙن جي شڪل هوندي آهي	.46
	oval.	<b>(A)</b>	بيضوي.	
	circular.	B	گول.	
	triangle.	©	ٽڪنڊي.	
	spherical.	<b>(</b>	گولائي.	
47.	Archimedes principle is applied to determine	Ļ	آركمديز جواصول لاڳو ٿيندو آهي معلوم ڪرڻ جي لاءِ	.47
	specific resistance.	<b>(A)</b>	مخصوص رڪاوٽ.	
	specific density.	B	مخصوص رڪاوٽ. مخصوص گهاٽائي.	
	specific gravity.	©	مخصوص كشش ثقل.	
	specific heat.	<b>(</b>	مخصوص گرمي.	

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48.	The process in which heat is transferred from one part of the body to the other by interaction of electron is called	ن ۾ گرمي جسم جي هڪ حصي کان نهن اليڪٽرانن جي ڪري منتقل ٿيندي '		.48
	conduction.	A	پَسرائڻ.	
	convection.	B <u></u>	گرمي جي وه	
	expansion.	©	وڌاءُ	
	radiation.	(جوڻ. (D)	گر <i>مي</i> جو پک	
49.	The branch of physics which is concerned with the properties of highly ionized atoms forming a mixture of bare nuclei and electrons is called	ها شاخ جنهن ۾ خالي مرڪز ۽ ي ميلاپ ۽ وڌ کان وڌ برق پارن ۾ ورهايل اس ڪيو وڃي تہ ان کي چئبو آهي	اليكٽرانن ج	.49
	mechanics.	<b>(A)</b>	حركيات.	
	plasma physics.	®	حركيات. پلازما فزكس	
	nuclear physics.	©	جوهري فزك برق مقناطيس	
	electromagnetism.	ىيت.	برق مقناطيس	

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50.	Answer the following questions.	هيٺ ڏنل سوالن جا جواب لکو. ( 0.5 ع	.50
•	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 حركت جو پهريون قانون اچلتا/ انرشيا جو قانون به چورائيندو آهي، وضاحت كريو ته ڇو؟	(ii
			_

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51.	A cyclis seconds. motor cy	Find t				رفتار	سوار جي ر			وٽر سائيڪ بڊن ۾ طئي ڪريو.	سيكن	.51
					(Ma	rks 03						
-												-
-												- -
-												- -
_												_

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<b>52.</b> D	oifferentiate	e between Scalar and	طن ما ختا با	52
	ector quant		طرفي ۽ بي طرفي مقدار جي وچ ۾ فرق بيان ڪريو.	.54
		(Marks	s 04)	
		Scalar	Vector	
		طرفي مقدار	بي طرفي مقدار	
	i)	ري ر	بي ري.	
	1)			
	ii)		+	
	11)			
<b>53.</b> E	xplain Tor	que or moment of force.	ندر مولدات و عظامت کرد	53
2012	mpram 101	que or moment or rore.	زورجي معيارِ اثرجي وضاحت كريو.	.55
		(Marks	s <b>01</b> )	
				—

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<b>54.</b> Indicate the position of centre of gravity in the following objects.  (Mar)	54. هيٺ ڏنل شين جي مرڪز ثقل جي سڃاڻپ ڪريو.

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<b>55.</b> Define the following terms.	55. هيٺ ڏنل اصطلاحن جي وصف لکو.
(Ma	arks 04)
Stress	ڇِڪَ
Strain	بگاڙ
Young's Modulus	ينگ جو ماڊيولس
Elasticity	
Liasticity	لچڪ
-	