

PHYSICAL QUANTITIES AND MEASUREMENT

	AND MEASUREMI							
		DICE QUESTIONS						
1.	The branch of science which deals with the study of properties of matter, energy and							
	their mutual relationship is called:							
	(a) Astronomy	(b) Physics						
	(c) Geology	(d) Chemistry						
2.	The study of properties of the ionic sta	ate of matter is called						
	(a) Plasma Physics	(b) Astrophysics						
	(c) Sound	(d) Electromagnetism						
3.	The study of internal structure of earth and its activities like seismography is c							
		(GRW 2013, 2015)						
	(a) Solid state physics	(b) Heat						
	(c) Mechanics	(d) Geophysics						
4.	The study of the isolated nuclei of an a	atom is called:						
	(a) Plasma Physics							
	(c) Nuclear Physics	(d) Biophysics						
5.	Much of the universe is made up of:							
upotania in proportioni de la compania de la compa	(a) Solid	(b) Liquid						
	(c) Plasma	(d) All of above						
6.	The international system of units is abbreviated as:							
	(a) IS	(b) SI						
	(c) Both a & b	(d) none						
7.	The terms used internationally for multiples and submultiples of various units ar							
	known as:							
	(a) Standard	(b) Scientific notation						
	(c) Prefixes (d) All of above							
8.	Meter rule can measure the length accurately up to:							
	(a) 1 mm	(b) 1 cm						
•	(c) 1 m	(d) 1 km						
9.		to one tenth of a millimeter.						
	(a) Meter rule	(b) Vernier callipers						
1.0	(c) Screw Gauge The ST weit of interesting of lighting	(d) All						
10.	The SI unit of intensity of light is:	(b) Valuin						
	(a) Newton (a) Kilogram	(b) Kelvin (d) Candela						
11	(c) Kilogram One meter is equal to:	(u) Candela						
11.	One meter is equal to: (a) 10 ³ mm	(b) 10^{-3} km						
	(a) 10 mm (c) 10^2 cm	(d) All						
12.								
12.	(a) Milliliter	(b) cm ³						
	(c) Both a & b	(d) none						

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12								
13.	One Femto is equal to:	(L) 10-15						
	(a) 10^{15}	(b) 10 ⁻¹⁵ (d) 10 ⁻¹²						
	(c) 10 ⁻⁹	ENANAME SOURSE AND VICE SOURCE						
14.	The least count of vernier calipers is							
	(a) 0.1cm	(b) 0.1mm						
4 =	(c) 0.01cm	(d) Both b & c						
15.	Total length of the vernier scale is:							
	(a) 1mm	(b) 9 mm						
17	(c) 10 mm	(d) 1 cm						
16.	Number of divisions on the vernier s							
	(a) 1	(b) 9						
	(c) 10	(d) 100						
17.	Length of the smallest division on m	ON MARKET THE PART TO THE PART						
	(a) 1 cm	(b) 1 mm						
0 122	(c) 0.9 mm	(d) All						
18.		vernier scale of the vernier calipers is:						
	(a) 1 cm	(b) 1 mm						
	(c) 0.9 mm	(d) All						
19.	If zero of the vernier scale is on the	e right side of the zero of the main scale then it is						
	known as zero error:							
	(a) Positive	(b) Negative						
	(c) No error	(d) none of these						
20.	If zero of the vernier scale is on th	e left side of the zero of the main scale then it is						
	known aszero error:							
	(a) Positive	(b) Negative						
	(c) None of these	(d) No error						
21.	If zero of the vernier scale is on the	right side of the zero of the main scale then zero						
an manufabungans	error is to be:							
	(a) Added	(b) Subtracted						
	(c) Multiplied	(d) Divided						
22.	If zero of the vernier scale is on the	e left side of the zero of the main scale then zero						
	error is to be:							
	(a) Added	(b) Subtracted						
	(c) Multiplied	(d) Divided						
23.	The least count of Screw Gauge is:							
The second secon	(a) 0.1 mm	(b) 0.01 mm						
	(c) 0.1 cm	(d) 0.01 cm						
24.	Total number of divisions on the circ							
	(a) 10	(b) 20						
	(c) 100	(d) 200						
25.	Pitch of the screw gauge is:							
	(a) 1m	(b) 1 mm						
	(c) 1 cm	(d) 0.1 mm						
26.		ve the horizontal line then the zero error will be:						
_ U.	(a) Positive	(b) Negative						
	(c) None of these	(d) No error						
27.		ow the horizontal line then the zero error will be:						
41.	(a) Positive	(b) Negative						
	(a) Positive (c) None of these	(d) No error						
	ICI INOHE OI HIESE	TUI INO CITOI						

28.

(a) Added

(c) Multiplied

If the zero of the circular scale is above the horizontal line then the zero error is to be:

(b) Subtracted

(d) Divided

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29.	If the zero of the circular scale is below the horizontal line then the zero error is to be:							
	(a) Added	(b) Subtracted						
	(c) Multiplied	(d) Divided						
30.	For scientific notation internationally accepted practice is that there should be							
	digit(s) before the decimal point.							
	(a) One	(b) Two						
	(c) Three	(d) No						
31								
31.		forward or backward in one complete rotation of						
	the circular scale is known as:	(h) Ditah						
	(a) Least count	(b) Pitch						
22	(c) Constant	(d) None of above						
32.	A physical balance is used to measu							
	(a) Weight	(b) Volume						
	(c) Length	(d) mass						
33.	Least count of mechanical stop water							
	(a) 1 second	(b) 1 minute						
	(c) 0.1 second	(d) 0.01 second						
34.	Least count of digital stop watch is:							
	(a) 1 second	(b) 1 minute						
	(c) 0.1 second	(d) 0.01 second						
35.	In any measurement, the accurately l	known digits and first doubtful digit are known as:						
	(a) Prefixes	(b) Significant figures						
	(c) Real numbers	(d) All						
36.	The radius of wire is 0.022 cm. The	number of significant figures in the measurements						
	are:							
	(a) 1	(b) 2						
	(c) 3	(d) 4						
37.	The number of significant figures in	1.406 are:						
Legister State	(a) 4	(b) 3						
	(c) 2	(d) 1						
38.	The number of significant figures in	1.40×10^5 are:						
	(a) 1	(b) 2						
	(c) 3 To							
39.		(d) 4						
0.000 (0.	Vernier constant is also known as							
	Vernier constant is also known as (a) Pitch							
		of vernier calipers:						
40.	(a) Pitch (c) Vernier value	(b) Proportionality constant (d) Least count						
	(a) Pitch (c) Vernier value The zeros in between the digits are	(b) Proportionality constant (d) Least count considered:						
	 (a) Pitch (c) Vernier value The zeros in between the digits are (a) Significant 	(b) Proportionality constant (d) Least count considered: (b) Insignificant						
40.	 (a) Pitch (c) Vernier value The zeros in between the digits are (a) Significant (c) Constant 	(b) Proportionality constant (d) Least count considered:						
	 (a) Pitch (c) Vernier value The zeros in between the digits are (a) Significant (c) Constant 10⁶ Stands for: 	(b) Proportionality constant (d) Least count considered: (b) Insignificant (d) None of above						
40.	 (a) Pitch (c) Vernier value The zeros in between the digits are (a) Significant (c) Constant 10⁶ Stands for: (a) Micro 	(b) Proportionality constant (d) Least count considered: (b) Insignificant (d) None of above (b) Pico						
41.	 (a) Pitch (c) Vernier value The zeros in between the digits are (a) Significant (c) Constant 10⁶ Stands for: (a) Micro (c) Nino 	(b) Proportionality constant (d) Least count considered: (b) Insignificant (d) None of above						
40.	 (a) Pitch (c) Vernier value The zeros in between the digits are of (a) Significant (c) Constant 10⁶ Stands for: (a) Micro (c) Nino 1μs is equal to: 	(b) Proportionality constant (d) Least count considered: (b) Insignificant (d) None of above (b) Pico (d) Mega						
41.	 (a) Pitch (c) Vernier value The zeros in between the digits are equal to: (a) Significant (b) Constant 106 Stands for: (a) Micro (b) Nino 1μs is equal to: (a) 10-9 s 	(b) Proportionality constant (d) Least count considered: (b) Insignificant (d) None of above (b) Pico (d) Mega						
40. 41. 42.	 (a) Pitch (c) Vernier value The zeros in between the digits are of (a) Significant (c) Constant 10⁶ Stands for: (a) Micro (c) Nino 1μs is equal to: (a) 10⁻⁹ s (c) 10⁻⁶ s 	(b) Proportionality constant (d) Least count considered: (b) Insignificant (d) None of above (b) Pico (d) Mega (b) 10 ⁻³ s (d) 10 ⁻¹² s						
41.	 (a) Pitch (c) Vernier value The zeros in between the digits are of (a) Significant (c) Constant 10⁶ Stands for: (a) Micro (c) Nino 1μs is equal to: (a) 10⁻⁹ s (c) 10⁻⁶ s To measure correctly the volume of (a) 	(b) Proportionality constant (d) Least count considered: (b) Insignificant (d) None of above (b) Pico (d) Mega						
40. 41. 42.	 (a) Pitch (c) Vernier value The zeros in between the digits are of (a) Significant (c) Constant 10⁶ Stands for: (a) Micro (c) Nino 1μs is equal to: (a) 10⁻⁹ s (c) 10⁻⁶ s To measure correctly the volume of surface of meniscus: 	(b) Proportionality constant (d) Least count considered: (b) Insignificant (d) None of above (b) Pico (d) Mega (b) 10 ⁻³ s (d) 10 ⁻¹² s f the liquid, the eye must be kept on the						
40. 41. 42.	 (a) Pitch (c) Vernier value The zeros in between the digits are of (a) Significant (c) Constant 10⁶ Stands for: (a) Micro (c) Nino 1μs is equal to: (a) 10⁻⁹ s (c) 10⁻⁶ s To measure correctly the volume of surface of meniscus: (a) Lower 	(b) Proportionality constant (d) Least count considered: (b) Insignificant (d) None of above (b) Pico (d) Mega (b) 10 ⁻³ s (d) 10 ⁻¹² s f the liquid, the eye must be kept on the (b) Upper						
40.41.43.	(a) Pitch (c) Vernier value The zeros in between the digits are (a) Significant (c) Constant 10 ⁶ Stands for: (a) Micro (c) Nino 1µs is equal to: (a) 10 ⁻⁹ s (c) 10 ⁻⁶ s To measure correctly the volume of surface of meniscus: (a) Lower (c) Middle	(b) Proportionality constant (d) Least count considered: (b) Insignificant (d) None of above (b) Pico (d) Mega (b) 10 ⁻³ s (d) 10 ⁻¹² s f the liquid, the eye must be kept on the						
40. 41. 42.	(a) Pitch (c) Vernier value The zeros in between the digits are of (a) Significant (c) Constant 10 ⁶ Stands for: (a) Micro (c) Nino 1µs is equal to: (a) 10 ⁻⁹ s (c) 10 ⁻⁶ s To measure correctly the volume of surface of meniscus: (a) Lower (c) Middle SI unit of electric charge is	(b) Proportionality constant (d) Least count considered: (b) Insignificant (d) None of above (b) Pico (d) Mega (b) 10 ⁻³ s (d) 10 ⁻¹² s f the liquid, the eye must be kept on the (b) Upper (d) All of above						
40.41.43.	(a) Pitch (c) Vernier value The zeros in between the digits are (a) Significant (c) Constant 10 ⁶ Stands for: (a) Micro (c) Nino 1µs is equal to: (a) 10 ⁻⁹ s (c) 10 ⁻⁶ s To measure correctly the volume of surface of meniscus: (a) Lower (c) Middle	(b) Proportionality constant (d) Least count considered: (b) Insignificant (d) None of above (b) Pico (d) Mega (b) 10 ⁻³ s (d) 10 ⁻¹² s f the liquid, the eye must be kept on the (b) Upper						

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45. The word science is derived from the Latin word

(a) Scientia

(b) Santia

(c) Scient

(d) None of these

46. Least count of digital vernier callipers is

(a) 0.1mm

(b) 0.01 mm

(c) 0.001 mm

(d) 1 mm

	ANSWER KEY										
	\mathbf{Q} .	An	Q.	An	\mathbf{Q} .	An	Q.	An	Q	Ans	
	1	b	11	d	21	b	31	b	41	d	
	2	a	12	C	22	a	32	d	42	c	
	3	d	13	b	23	b	33	C	43	a	
	4	C	14	d	24	C	34	d	44	d	
	5	C	15	b	25	b	35	b	45	a	
	6	b	16	_ c	26	b	36	b	46	b	
	7	C	17	b	27	a	3 7	• a			
	8	a	18	c	28	a	38	C			
4	9	b	19	a	29	b	39	d			
	10	Paparagramme Commen	20	b	30	a	40	a			

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