TEST - 2015

	11/01 - 201			
TO-	COURSE	DAY: SUNDAY TIME: 10.00 A.M. TO 1.00 P.M.		
LU	ELECTRONICS & COMMUNICATION			
MAXIMUM MARI	S TOTAL DURATION	MAXIMUM TIME FOR ANSWERING		
180	200 MINUTES	180 MINUTES		

MENT				QUESTION BOOKLET DETAILS			
DIPLOMA	CEI	NUN	1BER	VERSION CODE	SERIAL NUMBER		
			, de		114176		

### DOs:

- 1. Check whether the Diploma CET No. has been entered and shaded in the respective circles on the OMR answer sheet.
- 2. This Question Booklet is issued to you by the invigilator after the 2<sup>nd</sup> Bell i.e., after 09.50 a.m.
- 3. The Serial Number of this question booklet should be entered on the OMR answer sheet and the respective circles should also be shaded completely.
- 4. The Version Code of this question booklet should be entered on the OMR answer sheet and the respective circles should also be shaded completely.
- 5. compulsorily sign at the bottom portion of the OMR answer sheet in the space provided.

### DON'Ts:

- 1. THE TIMING AND MARKS PRINTED ON THE OMR ANSWER SHEET SHOULD NOT BE DAMAGED / MUTILATED / SPOILED.
- 2. The 3<sup>rd</sup> Bell rings at 10.00 a.m., till then;
  - Do not remove the paper seal of this question booklet.
  - Do not look inside this question booklet.
  - Do not start answering on the OMR answer sheet.

# IMPORTANT INSTRUCTIONS TO CANDIDATES

- 1. This question booklet contains 180 (items) questions and each question will have one statement and four answers. (Four different options / responses.)
- 2. After the 3<sup>rd</sup> Bell is rung at 10.00 a.m. remove the paper seal of this question booklet and check that this booklet does not have any unprinted or torn or missing pages or items etc., if so, get it replaced by acomplete test booklet. Read each item and start answering on the OMR answer sheet.
- 3. During the subsequent 180 minutes:
  - Read each question (item) carefully
  - Choose one correct answer from out of the four available responses (options / choices) given under each question / item. In case you feel that there is more than one correct response, mark the response which you consider the best. In any case, choose only one response for each item.
  - Completed darken / shade the relevant circle with a BLUE OR BLACK INK BALL POINT PEN against the question number on the OMR answer sheet.

# Correct Method of shading the circle on the OMR answer sheet is as shown below:

- 4. Use the space provided on each page of the question booklet for Rough Work. Do not use the OMR answer sheet for the same
- 5. After the last Bells is rung at 1.00 p.m. stop marking on the OMR answer sheet and affix your left hand thumb impression on the OMR answer sheet as per the instructions.
- 6. Hand over the **OMR ANSWER SHEET** to the room invigilator as it is.
- 7. After separating the top sheet, the invigilator will return the bottom sheet replica (Candidate's copy) to you to carry home for self-evaluation.
- 8. Preserve the replica of the OMR answer sheet for a minimum period of ONE year.



# PART - A

APPLIED	SCIENCE
	SCILITOR

).	1.	Photo electric effect Compton effect contrast between brig Low on-electrolyte solution Sugar solution Water	2. High	4. ands of an ir 3.	Black body rad	rn is 4.	
· .	3. The 1.	Compton effect  contrast between brig  Low  on-electrolyte solution	2. High	4. ands of an ir 3.	Black body rad	iation rn is 4.	
· .	3. The	Compton effect contrast between brig	2. High	4. ands of an ir 3.	Black body rad	iation rn is 4.	
W	3.	Compton effect		4.	Black body rad	iation	Gradually decrease
iy	3.	Compton effect	ht and dark ba	4.	Black body rad	iation	
5.							
Ď.	1	Photo electric effect		411	TITLUTION OF OR		
5	211000	_		2.	Interference of	light	
	Max	well's electromagnetic	theory could e	explain			
	1.	Parallel	2. Independe	ent 3.	Perpendicular	4.	At 45°
<b>.</b>		en double refraction of nes to one a	another				
	3.	Absent		4.	Comparable wi	th the	wavelength of light
	1.	Very big		2.	Dark		
	Тос	bserve diffraction patt	ern the obstacle	e should be			
	1.	$\frac{1}{1.22\lambda}$	$2.  \frac{1.22\lambda}{d}$	3.	$\frac{1.22d}{\lambda}$	4.	$\frac{\lambda}{1.22d}$
2.		olving power of telesco					
	3.	Fluorescent lines		4.	Incident lines		
	1.	Stokes lines	4 115177 IV	2.	Antistokes line	es	
	1						
	inci	he spectrum of scatte dent light are called	3				

-				Space For	Rough V	Vork		
	1.	0.9 m/s	2.	9 m/s	3.	0.09 m/s	4. 9.2	m/s
16.		rce of 1.2 x 10 <sup>-2</sup> N ac body is						
	3.	Inertia of motion			4.	Inertia of tir	ne	
(7)	1.	Inertia of rest			2.	Inertia of di	rection	
15.	Wet	clothes are dried in	wash	ing machine b	y the pro	perty of		
	3.	Exactly half way			4	After it touch	nes ground	
	1.	At the beginning			2	Just before i	t touches gro	und
14.	The	velocity of a freely fa	alling	body is maxin	num			
			_,					
	1.	0.1		0	3.	10	4. 1	
13.	Acc	ording to Newton's se			F = Kma.	The value of I	K is	
	1.	0.05			J,	0.04	7. 0.02	20
12.	cou	nain scale is divided nt ofcm	(a)	nalf mm and l				
	1.	Strain	2.	Efficiency	3.	Force	4. Pi	
11.	An	example of dimension	nless	constant is				
	1.	Femto	2.	Pico	3.	Peta	4. Nar	10
10.	The	prefix used for 10 <sup>-15</sup>	is					
4.00	1.	Meter		Second	3.	Netwon	4. Car	ıdela
9.	An	example of derived u						
	٥.	Equal to 10 g lon			21	Word than 1	0 8 10110 / 1101	
	3.	Equal to $10^{-7}$ g ion			4.		0 <sup>7</sup> g ions / litr	
	1.	More than $10^{-7}$ g i			2.	Less than 10	) <sup>—7</sup> g ions / lit	re
8.	In a	alkalies the concentra	ation	of $OH^-$ ions	is			

17.	An e	example of vector quan	tity is				
	1.	Volume .	2. Energy	3.	Density	4.	Force
18.	Han	dle of the door is fixed	away from the end w	here	it is fixed with	h hinges to	
	1.	Increase the moment	of force	2.	Decrease th	ne moment	of force
	3.	Keep the door firm		4.	Lock it easi	ily	
19.	Resi	ultant of two equal force	es perpendicular to e	each o	other acts at a	an angle _	to first force
	1.	90°	2. 180°	3.	30°	4.	45°
20.	The	resultant of two forces	acting on a body can	not b	e		
	1.	Greater than first for	ce				
	2.	Zero					
	3.	Lesser than first forc	e v				
	4.	Lesser than the differ	rence between two fo	orces			
21	Tow	ng of a boat by two force	ces is an illustration	of			
	1.	Lami's theorem		2.	Law of trian	gle of force	es
	3.	Law of parallelogram	of forces	4.	Law of polyg	gon of force	8
22.	Shoo	ck absorber is an exam	ple for				
	1.	Compressive stress		2.	Tensile stre	ess	
	3.	Shear stress		4.	Shear strain	n	
23.	Fact	or of safety of a structu	re is				
	1.	Within 2		2.	Equal to zer	0	
	3.	Vary between 5 and 1	0	4.	More than 1	10	
24	In ca	ase of liquids as the ter	mperature increases,	the	viscosity of lie	quid decre	ases due to
	1.	Increase in the rate of	f diffusion of gases				
	2.	Decrease in the rate	of diffusion of gases				
	3.	Increase in the poter	ntial energy of molec	ules			
	4.	Increase in the kinet	ic energy of molecu	les			

A-4

25.	One	Pascal	is	equal	to
20.	OHC	1 ascai	1/2	cquai	LU

- 10 dynes/cm<sup>2</sup> 1.
- $\sim$  2. 1 dyne / cm<sup>2</sup>
- 100 dynes / cm<sup>2</sup> 3.

4. 0.1 dyne / cm<sup>2</sup>

## To calm down turbulent sea, sailors use oil to

- Decrease surface tension
- 2. Increase surface tension

Decrease viscosity 3.

Increase cohesive force

# The thrust on the bottom of the container having a base area of 20 m<sup>2</sup> filled with water to a height of 3 m is \_\_\_\_\_ (given $g = 10 \text{m/s}^2$ )

- 6 x 10<sup>5</sup> N
- 2.  $6 \times 10^4 \text{ N}$
- 3.  $6 \times 10^3 \text{ N}$

- One calorie
- 2. One joule
- 3. One kilo-calorie 4. One kilojoule

- 2. -100°C

- 1.  $\frac{1}{273}$  2.  $-\frac{1}{273}$
- 3. 273

Wave amplitude 1.

2. Wave velocity

Wave frequency 3.

Wavelength

- 2.  $V=\sqrt{\frac{m}{T}}$  3.  $V=\sqrt{\frac{1}{T}}$  4.  $V=\frac{\sqrt{m}}{T}$

Space For Rough Work

33.	Absorption co-efficient of sound wave is given by	Where	$E_{m}$	is energy	absorbed	by	the
	given medium $E_{ow}$ is the energy absorbed by open window.						

1. 
$$a = \frac{E_m}{E_{ow}}$$

$$a = \frac{E_{ow}}{E_m}$$

3. 
$$a = E_m \times E_{ow}$$
 4.  $a = E_m + E_{ow}$ 

$$4. \quad a = E_m + E_{ow}$$

#### 34. The rich quality of a musical note depends on

1. Fundamental frequency

- 2. Loudness
- 3. Larger number of over tones
- Pitch

## Waxing and waning are the characteristics of

- Periodic motion
- 2. Oscillations
- Beats
- 4. Frequency

#### 36. Velocity of sound in air varies

- Inversely as the square root of the density of the medium
- 2. Directly as the square root of the density of the medium
- 3. Directly as the density of medium
- 4. Inversely as the density of medium

#### 37. The vibrations of a body of decreasing amplitude are called

1. Undamped free vibrations

Damped free vibrations

3. Resonant vibrations

Forced vibrations

#### Another name for field emission is 38:

1. Cold cathode emission

2. Thermionic emission

3. Photoelectric emission 4. Secondary emission

#### In case of photoelectric emission, the rate of emission of electron is 39.

- 1. Independent of frequency of radiation
- 2. Dependent on frequency of radiation
- 3. Dependent on wavelength of incident radiation
- 4. Independent of intensity of radiation

#### Emission of radiation from radioactive element is 40.

- 1. Slow
- 2. Fast
- 3. Spontaneous
- 4. Very slow

### PART - B

### APPLIED MATHEMATICS

41. 
$$\int_{-1}^{1} (2x+1)(5-x) dx$$
 is

1. 10

- 2.  $\frac{26}{3}$  3.  $\frac{-26}{3}$  4.  $\frac{11}{3}$

42. 
$$\int_{0}^{\frac{\pi}{4}} tan^{2}x \ sec^{2}x \ dx$$
 is

- 2.  $\frac{4}{3}$  3.  $\frac{1}{2}$  4.  $\frac{-1}{3}$

43. The RMS value of 
$$y^2 = x^2 - 2x$$
 over the interval [1, 3] is

- 1.  $\sqrt{\frac{5}{3}}$  2.  $\sqrt{\frac{2}{3}}$  3.  $\frac{1}{3}$  4.  $\frac{1}{\sqrt{3}}$

44. The differential equation of 
$$y^3 = 5 ax$$
 by eliminating arbitrary constant  $a$  is

1.  $\frac{dy}{dx} - \frac{y}{3x} = 0$ 

 $2. \quad \frac{dy}{dx} + \frac{y}{3x} = 0$ 

- 3.  $\frac{dy}{dx} \frac{3y}{x} = 0$
- $4. \quad \frac{dy}{dx} = \frac{5y}{3x} = 0$

45. The integrating factor of the differential equation 
$$x \frac{dy}{dx} - (1-x)y = x^3$$
 is

- 3.  $e^{\frac{x^2-2x}{2}}$  4.  $e^{\frac{2x-x^2}{2}}$

Space For Rough Work

46. If 
$$\begin{vmatrix} 2x+1 & -5x \\ 1 & 3 \end{vmatrix} = 0$$
, then x is a separate HERTAN LITTERA

- 2.  $\frac{-3}{11}$  3.  $\frac{11}{3}$
- For the simultaneous linear equations 2x+y+z=1, x+y+2z=0 and 3x+2y-z=2, the value of  $\Delta x$  is
  - 3 1.

- 2. -11

48. If 
$$A = \begin{bmatrix} 2 & 3 \\ 5 & 4 \end{bmatrix}$$
,  $B = \begin{bmatrix} -1 & 7 \\ -4 & 1 \end{bmatrix}$  then  $(A+B)^T$  is

- 1.  $\begin{bmatrix} 1 & 1 \\ 10 & 5 \end{bmatrix}$  2.  $\begin{bmatrix} 1 & 10 \\ 1 & 5 \end{bmatrix}$  3.  $\begin{bmatrix} -1 & 10 \\ -1 & 5 \end{bmatrix}$  4.  $\begin{bmatrix} -1 & -1 \\ 10 & 5 \end{bmatrix}$

49. If 
$$A = \begin{bmatrix} 1 & -3 \\ -5 & 7 \end{bmatrix}$$
, then adj A is

- 1.  $\begin{bmatrix} 1 & -5 \\ -3 & 7 \end{bmatrix}$  2.  $\begin{bmatrix} 7 & -5 \\ -3 & 1 \end{bmatrix}$  3.  $\begin{bmatrix} -1 & -5 \\ -3 & -7 \end{bmatrix}$  4.  $\begin{bmatrix} 7 & 3 \\ 5 & 1 \end{bmatrix}$

50. The cofactor of O in 
$$A = \begin{bmatrix} 3 & -2 & 5 \\ 1 & 6 & 0 \\ 2 & 7 & -4 \end{bmatrix}$$
 is

1. -25

- 51. If  $(\sqrt{3} + 1)^3 = 10 + 6\sqrt{3}$ , then the value of  $(\sqrt{3} + 1)^3 (\sqrt{3} 1)^3$  is

- $12\sqrt{3}$  2. 0 3. 20 4.  $20+\sqrt{3}$
- The middle term in the expansion of  $\left(x^3 + \frac{1}{x^2}\right)^6$ 
  - 1.  $10 x^3$  2.  $20 x^3$  3.  $\frac{20}{x^3}$  4. 20

- If  $\vec{a} = i + 3j 2k$  and  $\vec{b} = 2i j + 3k$ , then  $\vec{a} \cdot \vec{b}$  is

  1. -5

  2. 11

  3. 7

  4. -7

- The work done by the force 2i j + 6k when it displaces the particle from (5, 3, -2) to (7, -4, 8) is
  - 1. 72

- 3. -71 4. 71
- The sine of the angle between the vectors  $\vec{a} = i + j + k$  and  $\vec{b} = 2i 3j 4k$  is 55.
  - 1.  $\sqrt{\frac{62}{87}}$  2.  $\sqrt{\frac{87}{62}}$  3.  $\frac{-5}{\sqrt{87}}$  4.  $\sqrt{\frac{10}{63}}$

- 56. If  $\cos \theta = \frac{5}{13}$  and  $\theta$  is acute angle, then the value of  $3\cos \theta 2\sin \theta$  is
  - 1.  $\frac{9}{13}$  2.  $3 \times 1$  3.  $\frac{-9}{13}$

- 4. -3

- 57. If  $x \sin 30^\circ Sec 30^\circ \tan 30^\circ = \tan^2 60^\circ$ , then the value of x is
  - 1.  $\frac{22}{3}$  2.  $\frac{-22}{3}$  3.  $\frac{11}{6}$  4.  $\frac{3}{22}$

- 58. The value of  $sin 225^{\circ} + cos(-135^{\circ})$  is

- 1.  $\sqrt{2}$  2.  $-\sqrt{2}$  3.  $\frac{1}{\sqrt{2}}$
- 4.  $\frac{-1}{\sqrt{2}}$
- 59. The simplified value of  $\frac{\sin(180^{\circ} A)\cot(90^{\circ} A)\cos(360^{\circ} A)}{\tan(180^{\circ} + A)\tan(90^{\circ} + A)\sin(-A)}$  is
  - 1. sin A
- $2. -sin A \qquad \qquad 3. \qquad 1$
- 4. cosec A

- 60. The simplified value of  $\frac{\sin 2A}{1+\cos 2A}$  is
  - 1. 2tan A
- 2. sin A
- 3. cot A

- 61. If  $tan A = \frac{3}{4}$  and  $tan B = \frac{1}{7}$ , then the value of (A+B) is

- 3.  $\frac{\pi}{4}$
- $4. \frac{23}{25}$

- The value of  $\cos 20^{\circ} + \cos 100^{\circ} + \cos 140^{\circ}$  is
  - 1. 0

- - $\frac{1}{2}$  4.  $\sin 50^{\circ}$

- The value of  $\cos^{-1} \left[ \tan 135^{\circ} \right]$  is
  - 1.

- 2. 180°
- 45°
- The centroid of the triangle formed by the vertices (-10, 6), (2, -2) and (2, 5) is
  - 1. (-2, 3)
- 2. (2,3) 3.  $\left(-3,\frac{9}{2}\right)$  4. (-6,9)
- 65. A point (-4, 3) divides the line AB externally in the ratio of 1: 2. Given A(-1, -3) then the point B
  - (6, -3).. 1.
- 2. (-10, 15) 3. (2, 9)
- 4. (2, -9)
- The area of triangle formed by the point, (3, -1), (2, 0) and (K, 4) is 10 Sq. Units, then the value of K
  - 1. 12

2. 7

- 3. -22
- 4. 22
- The slope of the line joining the points (-2, 3) and (4, -6) is
  - $1, \frac{3}{2}$   $3. \frac{2}{3}$

- The equation of straight line passing through (4, -1) and having equal intercepts is
  - 1. x + y - 1 = 0
- 2. x+y-5=0 3. x+y-3=0 4. x+y+3=0
- 69. The equation of the line passing through (5, -2) and parallel to the line 3x + 2y + 7 = 0 is
  - 1. 3x + 2y - 11 = 0

2. 3x - 2y + 11 = 0

3. 3x - 2y - 19 = 0 4. 2x-3y-16=0

- 70. The value of  $\lim_{x \to -2} \frac{x+2}{x^5+32}$  is
  - 1.  $\frac{1}{80}$  2. 80 3.  $\frac{-1}{80}$  4. -80

- 71. The value of  $\lim_{x \to 0} \frac{2x \tan 3x}{\sin 2x + 3x^2}$  is

- 1.  $\frac{-1}{5}$  2. 0 3.  $\frac{1}{2}$  4.  $-\frac{1}{2}$
- 72. If  $y = e^x \log x$ , then  $\frac{dy}{dx}$  at x = 1 is

- 73. If  $y = tan^{-1}\sqrt{\frac{1+\cos x}{1-\cos x}}$ , then  $\frac{dy}{dx}$  is

- 1. 2 2. -2 3.  $\frac{-1}{2}$  4.  $\frac{1}{2}$
- 74. If  $\sqrt{x^3} + \sqrt{y^3} = \sqrt{a^3}$ , then  $\frac{dy}{dx}$  is
  - $1. \sqrt{\frac{x}{y}}$
- 2.  $-\sqrt{\frac{x}{y}}$  3.  $\sqrt{\frac{y}{y}}$
- 4.  $-\sqrt{y}$

- The second derivative of y = log(sec x tan x) is
  - - $-\sec x \tan x$  2.  $\sec x \tan x$
- 3. -sec x
- 4. sec x

- Water flows into the cylindrical tank of radius 7mt at the rate of 294 cubic mt/sec, then the rate of height of water rising in the tank is
  - $\frac{\pi}{6}$  mt / sec

2.  $\frac{6}{\pi}$  mt / sec

3. 14406 mt / sec

- 4.  $\frac{21}{\pi}$  mt / sec
- The maximum value of the function  $y = x + \frac{1}{x}$  is
  - 1. 0

- 2. 2
- 3. 1 4. -2

- The value of  $\int tan^2x \ dx$  is
- tan x-x+c 2. x-tan x+c 3.  $\left(sec^2x\right)^2+c$  4. -cot x-x+c

- 79. The value of  $\int \frac{\cos x}{1+\sin x} dx$  is
  - 1.  $log(sec^2x + sec x tan x) + c$  2. log(sin x) + c

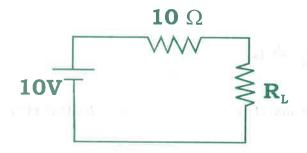
log(1+sin x)+c

- $4. \qquad \frac{\left(1+\sin x\right)^2}{2}+c$
- $\int \sin^2 x \sin 2x \, dx$  is

- 1.  $\frac{\sin^2 x}{2} + c$  2.  $\frac{\sin^4 x}{2} + c$  3.  $\sin^2 x + c$  4.  $\frac{-\sin^4 x}{2} + c$

# **ELECTRONICS & COMMUNICATION**

- Voltage regulators use
  - 1. Positive feed back
  - 2. No feed back
  - 3. Either positive or negative feed back
  - 4. Negative feed back
- 82. The clamper circuit is used to
  - Introduce a D.C. level to A.C. signal
  - 2. Supress variation in amplitude of input signal
  - 3. obtain an output which is integral of the input signal
  - 4. produce differential of input signal
- The maximum power transfered to the load  $R_{\scriptscriptstyle L}$  in the following circuit is 83.



- 2.5 watts 1.
- 1 watt
- 3. 25 w
- 4. 10 w
- 84. In a series, resonant circuit, the impedence at resonance is
  - Z = R1.
- $2. \quad Z = \frac{L}{CR} \qquad \qquad 3. \quad Z = \frac{CR}{L} \qquad \qquad 4. \quad Z = \frac{R}{L}$
- 85. A tuned circuit is resonant at 50 KHz its Q is 100. The band width is
  - 1. 50 Hz
- 2. 5 MHz
- 500 Hz
- 5 KHz

36.	III a	communication system, noise is most likel	y to	affect the signa	1
	1.	at the transmitter	2.	In the chann	el
	3.	In the information source	4.	at the destina	ation
87.	The	maximum power of AM wave under distort	ionle	ss condition is	
	1.	Pc 2. 2 Pc/3	3.	Pc/3	4. 3/2 Pc
38.		n FM system, what is the modulation index, i .4 V the deviation is 4.8 KHZ	f the	audio frequenc	y is 1 KHZ and the AF voltage
	1.	3.8 2. 2	3.	1	4. 4.8
39.	Puls	se width modulation Involves			
	1.	varying duration of message signal accord	ing t	o width of pulse	e train
	2.	varying width of pulses according to insta	niou	s variations of 1	message signal
	3.	Performing duration modification of mess pulse train	age s	ignal and then	multiplying the result with
		paroc train			
	4.		ain w	ith message an	d then subjecting the result
90.		Performing width modification of pulse trate to width modulation.  higher scale ammeter is used to measure too			
90.	If a l	Performing width modification of pulse trate to width modulation.  higher scale ammeter is used to measure too			
90.	If a low.	Performing width modification of pulse trate to width modulation.  higher scale ammeter is used to measure too	) low	current, then t	he measurement would have
90.	If a low. 1. 3.	Performing width modification of pulse trate to width modulation.  higher scale ammeter is used to measure too Precision	low 2.	current, then t	he measurement would have
	If a low. 1. 3.	Performing width modification of pulse trate to width modulation.  higher scale ammeter is used to measure too Precision Resolution	low 2.	current, then t	he measurement would have
	If a low.  1.  3.	Performing width modification of pulse trate to width modulation.  higher scale ammeter is used to measure too Precision Resolution  PMMC meter can measure	2. 4.	current, then the Accuracy All of the above	he measurement would have
	If a low.  1. 3. The 1. 3.	Performing width modification of pulse trate to width modulation.  higher scale ammeter is used to measure too Precision Resolution  PMMC meter can measure Only AC quantities	2. 4. 2. 4.	current, then to Accuracy All of the above Only DC quar	he measurement would have
91,	If a low.  1. 3. The 1. 3.	Performing width modification of pulse trate to width modulation.  higher scale ammeter is used to measure too Precision Resolution  PMMC meter can measure Only AC quantities Both ac and dc quantities	2. 4. 2. 4.	current, then to Accuracy All of the above Only DC quar	he measurement would have
91,	If a low.  1. 3. The 1. 3. A dy	Performing width modification of pulse trate to width modulation.  higher scale ammeter is used to measure too Precision Resolution  PMMC meter can measure Only AC quantities Both ac and dc quantities	2. 4. 2. 4.	current, then to Accuracy All of the above Only DC quar	he measurement would have
91,	If a low. 1. 3. The 1. 3. A dy 1.	Performing width modification of pulse trate to width modulation.  higher scale ammeter is used to measure too Precision Resolution  PMMC meter can measure Only AC quantities Both ac and dc quantities  mamometer type wattmeter responds to the Average value of active power	2. 4. 2. 4.	current, then to Accuracy All of the above Only DC quar	he measurement would have

	1.	Balanced conditions are independent of I	reque	ency	
	2.	Balanced conditions are dependent on Fr	equer	ncy	
	3.	Capacitance is meaured interms of stand	lard i	nduction	
	4.	Frequency is measured in terms of resis	tance	and capacitanc	e values
94.		Lissajous pattern appearing on the screen uencies, which are in phase with each other			
	1.	A straight line 2. A circle	3.	An ellipse	4. A parabola
95.	Free	quency spectrum of waveform can be deterr	nined	using	
	1.	Wave analyzer	2.	Q - Meter	
	3.	LCR bridge	4.	Wein-bridge o	scillator
96.		measure surface temperature one can use,  Strain guage 2. Diaphragm			
97.	In a	n LVDT, the output quantity			
	1.	Is algebrically summed to zero			
	2.	Is difference of 2 currents flowing to the t	wo se	condaries	
	3.	Depends upon its rating		5	
	4.	depend upon its size			
98.	Elec	tronic counters are used for measuring			
	1.	Linear velocity 2. Angular velocity	3.	Acceleration	4. Pressure
99.	Piezo	pelectric crystal produces an EMF			
	1.	When external Mechanical forces applied			
	2.	When external magneticfield applied			
	3.	When radiations are applied			
	4.	When junction of two crystals are heated			

A-4

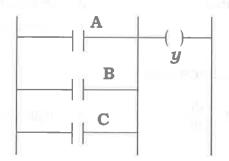
93. In wein bridge

				Space For Ro	ugh V	Vork		
	3.	Circuit switching			4.	Data switching		
	1.	Pocket switching			2.	Message switchin	ng	
108.	In w	hich switching there	is no	allocation of reso	urces	s for data transfer		
		v						
	3.	physical layer			4.	Transport layer		
	1.	Network layer			2.	data link layer		
107.	Phys	ical address is done i	n wł	nich layer of OSI	mod	el		
		1						
	3.	Receive Interrupt			4.	Enable Receiver		
	1.	Serial port mode		-	2.	Transmit Interru	pt	
106.	In S	CON Register bit 6 an	d bi	t 7 specifies				
	1.	RI	2.	SM 2	3.	TB 8	4.	REN
105.	Whe	n 8051 receives 8 bit	data	and places in SB	UF re	egister, which flag	will	set
	1.	08 H	2.	07 H	3.	1 FH	4.	2 F H
104.		n 8051 is powered up					4	
				34				
	1.	13	2.	96	3.	58	4.	31
103.		051, the content of Re register is	gist	er A is 85, after the	e exec	cution of Instruction	n S	WAP A, the contents
		=		New Mark				
	1.	13 bit timer	2.	8 bit auto reload	3.	16 bit timer	4.	two 8 bit timers
102.	In M	ode 2, the timers of 8	051	are used as				
	1.	В	2.	A A	3. R	0	4.	R
101.		P instruction of 8051						
100.	1.	Internal ROM		External ROM	3.	Timer	4.	Counter
100.	PSEI	V in 8051 is used to a	cces	S				

1. Routers 2. Switches 3. Bridges 4. Gateways  110. Following device transforms the telephone network message to internet message 1. Bridges 2. Gate ways 3. Switch 4. Repeater  111. T D M is a, 1. Digital Technique 2. Analag Technique 3. Hybrid Technique 4. Discrete Technique  112. In Ring Topology which of the following is false statement 1. Undirection Traffic 2. Break in the ring can disable entire network 3. Easy to Install 4. Robust  113. Combination of multiple Topology is called 1. Hybrid topology 2. Mesh Topology 3. Mixed Topology 4. Combination topology  114. Dotted decimal notion of IPV4 is in the format 1. 1111 . 1011 . 1101 2. 40 . 30 . 4 C . 1 A 3. 128 . 11 . 13 . 14 4. 120 . 110 . 80  115. The biggest disadvantage of PCM is 1. Its inability to handle analog signal 2. the high error rate which is quartizing noise reduces 3. Its incompatability with TDM 4. the large band width required for it	109.	A ba	ndwidth of a LAN can	be 1	ncreased by					
1. Bridges 2. Gate ways 3. Switch 4. Repeater  111. T D M is a, 1. Digital Techinique 2. Analag Techinique 3. Hybrid Technique 4. Discrete Techinique  112. In Ring Topology which of the following is false statement 1. Undirection Traffic 2. Break in the ring can disable entire network 3. Easy to Install 4. Robust  113. Combination of multiple Topology is called 1. Hybrid topology 2. Mesh Topology 3. Mixed Topology 4. Combination topology  114. Dotted decimal notion of IPV4 is in the format 1. 1111.1011.1101 2. 40.30.4 C.1 A 3. 128.11.13.14 4. 120.110.80  115. The biggest disadvantage of PCM is 1. Its inability to handle analog signal 2. the high error rate which is quartizing noise reduces 3. Its incompatability with TDM 4. the large band width required for it		1.	Routers	2.	Switches	3.	Bridges	4.	Gateways	
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3. Easy to Install 4. Robust  113. Combination of multiple Topology is called 1. Hybrid topology 2. Mesh Topology 3. Mixed Topology 4. Combination topology  114. Dotted decimal notion of IPV4 is in the format 1. 1111 . 1011 . 1101 2. 40 . 30 . 4 C . 1 A 3. 128 . 11 . 13 . 14 4. 120 . 110 . 80  115. The biggest disadvantage of PCM is 1. Its inability to handle analog signal 2. the high error rate which is quartizing noise reduces 3. Its incompatability with TDM 4. the large band width required for it		1.	Undirection Traffic							
4. Robust  113. Combination of multiple Topology is called  1. Hybrid topology  2. Mesh Topology  3. Mixed Topology  4. Combination topology  114. Dotted decimal notion of IPV4 is in the format  1. 1111.1011.1101  2. 40.30.4 C.1 A  3. 128.11.13.14  4. 120.110.80  115. The biggest disadvantage of PCM is  1. Its inability to handle analog signal  2. the high error rate which is quartizing noise reduces  3. Its incompatability with TDM  4. the large band width required for it		2.	Break in the ring ca	n di	isable entire n	etwork				
1. Hybrid topology 2. Mesh Topology 3. Mixed Topology 4. Combination topology  114. Dotted decimal notion of IPV4 is in the format 1. 1111 . 1011 . 1101 2. 40 . 30 . 4 C . 1 A 3. 128 . 11 . 13 . 14 4. 120 . 110 . 80  115. The biggest disadvantage of PCM is 1. Its inability to handle analog signal 2. the high error rate which is quartizing noise reduces 3. Its incompatability with TDM 4. the large band width required for it		3.	Easy to Install							
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3. Mixed Topology  4. Combination topology  114. Dotted decimal notion of IPV4 is in the format  1. 1111.1011.1101	113.	Com	oination of multiple T	opol	ogy is called					
114. Dotted decimal notion of IPV4 is in the format  1. 1111.1011.1101		1.	Hybrid topology			2.	Mesh Topolo	gy		
1. 1111 . 1011 . 1101 2. 40 . 30 . 4 C . 1 A 3. 128 . 11 . 13 . 14 4. 120 . 110 . 80  115. The biggest disadvantage of PCM is 1. Its inability to handle analog signal 2. the high error rate which is quartizing noise reduces 3. Its incompatability with TDM 4. the large band width required for it		3.	Mixed Topology			4.	Combination	topology		
3. 128.11.13.14  4. 120.110.80  115. The biggest disadvantage of PCM is  1. Its inability to handle analog signal  2. the high error rate which is quartizing noise reduces  3. Its incompatability with TDM  4. the large band width required for it	114.	Dotte				ıt				
115. The biggest disadvantage of PCM is  1. Its inability to handle analog signal  2. the high error rate which is quartizing noise reduces  3. Its incompatability with TDM  4. the large band width required for it		1.	1111 . 1011 . 1101			2.	40.30.4 C	. 1 A		
<ol> <li>Its inability to handle analog signal</li> <li>the high error rate which is quartizing noise reduces</li> <li>Its incompatability with TDM</li> <li>the large band width required for it</li> </ol>		3.	128 . 11 . 13 . 14			4.	120 . 110 . 8	0		
<ol> <li>Its inability to handle analog signal</li> <li>the high error rate which is quartizing noise reduces</li> <li>Its incompatability with TDM</li> <li>the large band width required for it</li> </ol>	115.	The h	niggest disadvantage o	of PC	'M is					
<ol> <li>the high error rate which is quartizing noise reduces</li> <li>Its incompatability with TDM</li> <li>the large band width required for it</li> </ol>										
<ul> <li>3. Its incompatability with TDM</li> <li>4. the large band width required for it</li> </ul>			-	`		noice m	duosa			
4. the large band width required for it						, morse re	auces			
									v igilali	
		1,	are large bally within	requ						

116.	5. The Shannon - Hartley law							
	1.	describes signaling	rate	S	2.	defines Band width		
	3.	refers to distortion			4.	refers to Noise		
117.	The	Snubber – circuit pro	otect	SCR from				
		7.		1.				
	1.,	$\frac{at}{dt}$	2,	$\frac{dv}{dt}$	3.	high voltage 4.	High current	
118	Free	- wheeling diode is us	sed i	in kind of	f load			
110.	1.	_				Recistive load 4.	Magnetic load	
	1.	muuctive loau	۷.	Capacitive load	Ο.	Recibilite load	Madarotto roud	
119	Inve	rtor is a circuit which	COT	nverts				
117.	1.	AC to AC			3	DC to DC 4.	AC to DC	
	1.		۷.	1016	0.		Truck that I	
120	Type	- B chopper is also ca	lled	as				
120.	1.	first quadrant	uica		2.	Second quadrant		
	3.	Third quadrant			4.	Fourth quadrant		
	0.	Tima quadrant				Tour quadratic		
121	R - t	riggering network is u	sed	to trigger SCR from	m			
121.						10.70	1000	
	1.	45° to 90°	2.	0 to 90°	3.	90° to 135° 4.	0 to 180°	
							2	
122.	Low	power factor Implies		lines losses				
	1.	Higher			2.	Lower		
	3.	Equal			4,0	Lower than or Equal		
123.	Elect	rical signal converted	into	physical condition	n by			
	1.	Actuators	2.	Sensor	3.	Rungs 4.	Timer	
124.	Ident	tify the analog input t	o PL	C				
	1.	Solenoid			2.	Toggle Switch		
	3.	Level Transmitter			4.	Motor Starter		

125. What is the Boolean Expression for the given ladder diagram, y =



- 1. y = A + B + C 2. y = A B C 3. y = (A+B) C
- 4.  $y = (A \cdot C) + B$
- 126. The Maximum Size of each 8086 memory segment is
  - 1. 64 MB
- 2. 64 KB
- 3. 64 GB
- 4. 64 bytes

- 127. The size of the Interrupt Vector table of 8086 is
  - 1. 2 K

- 2. 1 K
- 3. 4 K
- 4. 8 K
- 128. Data definition and storage allocation directive used to define a byte type variable
  - 1. DW

- 2. DB
- 3. DT
- 4. DD
- 129. Using cascade mode in 8259 we can connect up to \_\_\_\_\_ interrupts
  - 1.
- 2. 16
- 3. 24
- 4. 64

- 130. Modem control unit is available in
  - 1. 8253
- 2. 8257
- 3. 8259
- 4. 8251

- 131. The register which acts as a Judge in 8259 is
  - 1. **IRR**
- 2. IMR
- 3. ISR
- 4. Priority Resolver

132. Medical Instruments performance factor does not depends upon							
	1.	Isolation		2.	Hysteresis		
	3.	Signal to Noise ratio		4.	Robust		
133.	Typic	al value of Action Potent					
	1.	+ 20 mv 2.	– 20 <i>mv</i>	3.	+ 25 mv	4. $-25 \ mv$	
134.	The I	Normal P Q R S T wave is	replaced by train of	of pu	lses indicates		
	1	Ventricular fibrilation		2.	Myocardial Infer	rcation	
	3.	Bundle Block		4.	AV Block		
135.	EEC	G is not used to analyse o	ne of the following				
	1.	Sleep dissorder		2. B	rain Death		
	3.	Epilepsy		4.	Arrhythmia		
136.	In Ex	ternal Defibrilator electro	odes used				
	1.	Paddle shape		2.	Micro elctrode		
	3.	Needle electrode		4.	Suction cup elec	etrode	
137.	Wave	e length of X - Ray are	than the visi	ble li	ght	Si .	
	1.	Shorter		2.	Greater		
	3.	Equal		4.	Greater than or	Equal to	
138.	To ge	et high quality Image mod	dern MRI system u	ses _	Magnets		
	1.	Semiconducting		2.	Super conductin	lg a	
	3.	Soft conducting		4.	Insulating		
139.	The o	lata to be measured, qua	intised and transm	itted	in Digital Teleme	etry by	
	1.	PAM 2.	PWM	3.	PCM	4. PPM	
			Space For Rou	ıgh V	Vork		

140.	SI u	nit of Specifi	c resista	nce	is –		W				
	1.	ohm		2.	ohm/mt	3.	ohm-mt	4.	ohm/amps		
141.		n three resis	stors of v	alue	s 10 Ω 100 Ω	2 and	$1K \Omega$ are con	nected in	n series the	effectiv	е
	1.	$1.1 K \Omega$		2.	1.11Κ Ω	3.	11.1 <i>K</i> Ω	4.	0.111 <i>K</i> Ω		
142.	Thre	e resistance o	of 10 Ω,	20 Ω	$1,30~\Omega$ are conf	nected i	n series, acros	s a suppl	y of 50 V. The	e voltage	9
	drop	across 30 $\Omega$	resisita	nce	is						
	1.	10 V		2.	20 V	3.	50 V	4.	30 V		
143.	Powe	r in an AC c	ircuit is	giver	ı by						
	1.	VI $\cos \theta$		2.	$\frac{VI}{4}\cos\theta$	3.	V I sin θ	4.	$V^2 I^2 \cos \theta$		
144.	Wire	wound resis	tors are	used	when the power	er dissi	pation is				
	1.	Low			High	3.	Medium	4.	Very low		
145.	The v	otage induce	ed in the	Seco	ondary winding	of a tra	ansformer is				
	1.	$4.44 \phi_m f N_2$	volts			2.	$44.4 \phi_m f N_2$	volts			
	3.	$\phi_m f N_2$ volt	ss III			4.	$4.44 \phi_m N_2 v$	olts			

Parallel

4. In any pattern

146. If more current is required, the cells may be joined in

1.

3.

Series

Series - Parallel

147.	The	energy gap in a semiconductor		
	1.	Increases with temparature	2.	Does not change with temperature
	3.	Decreases with temparature	4.	is Zero
148.	For a	a Reverse biased P - N junction, the current	thro	ugh the junction increases abruptly at
	1.	Breakdown voltage	2.	0 V
	3.	0.2 e V	4.	0.7 V
		11 T 11 T <sub>2</sub>		
149.		common base D.C current gain of a transis e of base current is	stor is	s 0.96. If the emitter current is 10 mA, the
	1.	0.4 mA 2. 9.6 mA	3.	0.96 mA 4. 9.04 mA
150.	A PII	N diode is frequently used as a		
	1.	Voltage Regualtor	2.	Peak detector
	3.	Harmonic generation	4.	Switching diode for very high frequencies
151.	FET'	s are		
	1.	Voltage controlled devices with high input	t imp	endence
	2.	Current controlled device with low input is	imper	ndence
	3.	Voltage controlled devices with low input	impe	ndence
	4.	Current controlled device with high input	impe	endence
152.	Depl	etion MOSFET can operate in		
	1.	Depletion mode only	2.	Enhancement mode only
	3.	Both depletion and enhancement mode	4.	Cutoff region when $V_{gs} = ov$
153.	The	unique character of LASER light is		
	1.	Coherent	2	Monochromatic
	3.	Collimated	4.e.	All of the above

154.	What is	the	binary	equivalent	of the	octal	number	17.26
------	---------	-----	--------	------------	--------	-------	--------	-------

- 1. 001111.010110 2. 10111.101100 3.
- - 110100.101110 4. 111010.010111

- 1. J-K flipflop 2. S-R flipflop 3. J-K Master slave 4. T-flipflop

1. 10

- 2. 25
- 31
- 4. 20

1. 1

2. 5

- 1. Decoder 2. Multiplexer
- 3. Demultiplexer 4. Encoder

# 159. Propogation delay time of a standard TTL is

- 1. 20 ns
- 2. 10ns
- 3. 5 ns

# 160. How many address bits are required for 2 KB memory location

1. 5

2. 8

- 13

- 1.
- 15 2.  $\frac{1}{16}$  3. 16 4.  $\frac{1}{15}$

# 162. The maximum conversion time required for 8 bit counter type ADC driven by 1 MHz clock is

- 1.  $255 \mu s$
- $2. 1 \mu s$
- 3.  $8 \mu s$
- 4.  $64 \mu s$

163.	The p	orogramable logic dev array at the output i	rice ha	aving programabl	e AN	D - array at the in		
	1.	PLA	2. I		3.	PGA	4.	ASIC
164	To de	etect errors in progra	m in s	single step	i	s called		
104.	1.	Debugger		Macro Assemble		Locator	4.	Linker
165.	A Mi	croprocessor is called	an n	- bit microproces	sor c	depending on		
100	1.	Register length			2.	Size of Internal d	lata E	Bus
	3.	Size of External data	a Bus		4.	No. of I/o devices	s con	nected
	0.							
166	The	total time required to	exec	ute an Instructio	n is	given by		
100	1	Instruction cylce +			2.	Instruction Cycl	e + F	etch cycle
	3.	Fetch Cycle + Exec			4.	Read cycle + wri	te cy	cle
167	. '\\'	indicate which escap	pe seq	luence				
	1.	back slash		back space	3.	carriage return	4.	New live
160	If o	variable is declared a	as cha	r Z how much m	emoi	y space is reserved	d uno	ler name Z?
100	1.	2 byte	2.	4 byte	3.	1 byte	4.	6 byte
169	). Wr	te the order of preced	dence					
	1.	binary additive			2.	equality operate		
	3.	bitwire OR operato	T		4.	•		2.4.0.1
	1.	1, 2, 3, 4	2.	1, 2, 4, 3	3.	4, 3, 2, 1	4.	3, 4, 2,1
170		nat is the output of th						
	int	x, y, z; y = 7; x = y - 4	-; y	= x; z = y	,			
	Th	e value of x, y, z are						7.7.6
	1.	6, 5, 4	2.	7, 6, 5	3.	6, 6, 4	4.	7, 7, 6

- 171. Identify the false statement in 'C'
  - 1. While loop is executed only when condition is satisfied
  - 2. While loop is executed atleast once
  - 3. Do While loop is executed atleast once
  - 4. For loop is used when the number of iteration is pre-determined
- 172. What is the out put of the code

for (i = 0; i < 11; i ++) { if ((i = 4) 11 (i = 7)) continue; print f ("the value of i is y.d\n", i);}

- 1. 0 to 10 numbers are printed
- 2. 0 to 11 numbers are printed
- 3. 4 and 7 numbers are printed
- 4. 0 to 10 numbers are printed except 4 & 7
- 173. Identfy the false statement with respect to array
  - 1. Array is a data structure which can stores the value of same data type
  - 2. Array is a data structure which can store different data type
  - 3. Maximum number of data stored in an array is size -1
  - 4. The array elements are stored in consecutive memory locations
- 174. What is the value of C[1][1] in the following expression

1. 4.

2. 1

- 3: 5
- 4. 6

- 175. The ripple factor of a bridge rectifier is
  - 1. 0.48
- 2. 1.21
- 3. 0.048
- 4. 0.121

176.	The p	positve part of the output signal in a transistor circ	uit	starts clipping, If Q - point of the circuit moves
	1.	Towards the saturation point		
	2.	Towards the cuttoff point		
	3.	Towards the centre of the load line		
	4.	In between centre and saturation point on the le	oad	line
177.	Whic	ch of the following amplifier class suffers mainly fr	om	the problem of cross – over distortion
	1.	Class - A	2.	Pushpull Class B
	3.	Class AB 4	ŀ.	Class C
		v.		
178.	A RC	C low pass circuit can also possibly be		3
	1.	An integrator circuit		
	2.	A differentiator circuit		
	3.	Either a differentiator or an integrator circuit		
	4.	A rectifiee circuit		
179.	In ar	n Ideal op-amp, the voltage gain for the common m	node	e signal is
	1.	0.5 2. ∞ 3	3.	2.0 4. 0
180.	The 1	primary advantage of a crystal oscillator is that		
	1.	It can oscillate at any frequency		
	2.	If gives a high output voltage		
	3.	Its frequency of oscillation remains almost cons	stan	t
	4.	It operates on a very low dc supply voltage		
		Space For Roug	rh V	Vork
		Space For Koug	511 V	TVIA