## TEST - 2015

	COURSE		DAY: SUNDAY		
	COMI	PUTER SCIENCE	TIME: 10.00 A.M. TO 1.00 P.M.		
MAXIMUM I	MARKS	TOTAL DURATION	MAXIMUM TIME FOR ANSWERING		

MENTION YOUR DIPLOMA CET NUMBER				QUESTION BOOKLET DETAILS			
DIPLOM	A CET	' NUN	IBER	VERSION CODE	SERIAL NUMBER		
3			4,14	A-4	132336		

#### DOs:

- Check whether the Diploma CET No. has been entered and shaded in the respective circles on the OMR answer sheet. 1.
- This Question Booklet is issued to you by the invigilator after the 2<sup>nd</sup> Bell i.e., after 09.50 a.m. 2.

200 MINUTES

- The Serial Number of this question booklet should be entered on the OMR answer sheet and the respective circles 3. should also be shaded completely.
- 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:

- THE TIMING AND MARKS PRINTED ON THE OMR ANSWER SHEET SHOULD NOT BE DAMAGED / MUTILATED / SPOILED.
- The 3rd Bell rings at 10.00 a.m., till then;

180

- 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

- This question booklet contains 180 (items) questions and each question will have one statement and four answers. (Four different options / responses.)
- After the 3rd Bell is rung at 10.00 a.m. remove the paper seal of this question booklet and check that this booklet does 2. 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.
- 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: $\bigcirc$ $\bigcirc$ $\bigcirc$ $\bigcirc$ $\bigcirc$ $\bigcirc$

- Use the space provided on each page of the question booklet for Rough Work. Do not use the OMR answer sheet for the same 4.
- 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 5. on the OMR answer sheet as per the instructions.
- Hand over the OMR ANSWER SHEET to the room invigilator as it is. 6.
- After separating the top sheet, the invigilator will return the bottom sheet replica (Candidate's copy) to you to carry 7. home for self-evaluation.
- Preserve the replica of the OMR answer sheet for a minimum period of ONE year.

180 MINUTES

#### PART - A

## APPLIED SCIENCE

		TANK IT IT			4-24 347 F		
1,		he spectrum of scatte dent light are called	ered light the l	lines correspo	onding to wavelengt	h greater than t	hat of
	1.	Stokes lines		2.	Antistokes lines		
	3.	Fluorescent lines		4.	4. Incident lines		
2.	Res	olving power of telesco					
	1	132336 1 1.222	1.22λ		1.22 <i>d</i>	$\frac{\lambda}{1.00 \text{ J}}$	
	1,,	1.22 <i>\lambda</i>	$\frac{2}{d}$	3,	λ	1.22 <i>d</i>	
3.	То	bserve diffraction patt	ern the obstac	le should be			
	1.	Very big		2.	Dark		
	3.	Absent		4.	Comparable with t	he wavelength of	light
4.		en double refraction one a	ccurs, extraord		d ordinary rays will		in the
	1.	Parallel	2. Independ	lent 3.	Perpendicular 4	4. At 45°	
5	Max	well's electromagnetic	theory could	explain			
	1.	Photo electric effect		2,	Interference of ligh	nt	
	3.	Compton effect		4.	Black body radiation	n e e e	
6.	The	contrast between brig	ht and dark b	ands of an in	terference pattern is	3	
	1.	Low	2. High	3.	No change	4. Gradually dec	creases
7.	A ne	on-electrolyte solution	is				
	1.	Sugar solution		2.	Salt solution		

Space For Rough Work

Copper sulphate solution

Water

3.

8.	In a	alkalies the concentra	tion	of <i>OH</i> - ions is					
	1.	More than $10^{-7}$ g io	ns /	litre	2.	Less than 10 <sup></sup>	<b>7</b> g ions	s / litre	
	3.	Equal to 10 <sup>-7</sup> g ions	/ lit	re	4.				
9									
9	An	example of derived un	it is						
	1.	Meter	2.	Second	3.	Netwon	4.	Candela	
10.	The	prefix used for 10 <sup>-15</sup> is	S						
	1.	Femto	2.	Pico	3.	Peta		Nano	
11		example of dimension	less (						
	1.	Strain	2.	Efficiency	3.			Pi	
12.	A ma	ain scale is divided in tofcm.	ito h	alf mm and havir	ng a V				a least
	1.	0.05	2.	0.005	3.	0.02	4.	0.025	
10		second to ugo							
13.		rding to Newton's seco			Kma.				
	1.	0.1	2.	0	3.	10 .		_	
14	The second			× .					
14	1.	velocity of a freely fall			0				
	3.	At the beginning Exactly half way			2.	Just before it to			
	J.	Exactly Hall way			4.	After it touches		d ====================================	
15.	Wet o	clothes are dried in wa	ehir	ag machine by the	nron				
	1.0			The by the		Inertia of direct			
	3.	Inertia of motion			4.	Inertia of time			
l <b>6</b> .	A for	ce of 1.2 x 10 <sup>-2</sup> N acts		3 seconds on a bo	dy of 1		est. Th	ne velocity gain	
	1.		2.	9 m/s relicedim					

17.	An e	example of vector quantity 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 hi	nges t	o manual di	
	1.	Increase the moment of force	2.	Decrease the m	omen	t of force	
	3.	Keep the door firm	4.	Lock it easily			
19.	Res	ultant of two equal forces perpendicular to e	ach c	other acts at an a	ngle _	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 force					
	2.	Zero					
	3.	Lesser than first force					
	4.	Lesser than the difference between two fo	rces			, 34	
21.	Tow	ing of a boat by two forces is an illustration of	of				
	1.	Lami's theorem	2.	Law of triangle	of forc	es	
	3.	Law of parallelogram of forces	4.	Law of polygon	of force	es	
22	Sho	ck absorber is an example for					
	1.	Compressive stress	2.	Tensile stress			
	3.	Shear stress	4.	Shear strain			
23.	Fact	for of safety of a structure is					
	1.	Within 2	2.	Equal to zero			
	3.	Vary between 5 and 10	4.	More than 10			
24.	In c	ase of liquids as the temperature increases,	the	viscosity of liquid	decre	eases due to	
	1.	Increase in the rate of diffusion of gases					
	2.	Decrease in the rate of diffusion of gases					
	3.	Increase in the potential energy of molec	ules				
	4.	Increase in the kinetic energy of molecu	les				

25. One Pascal is equal to	
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# 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 $g = 10 \text{m/s}^2$ )

1. 
$$6 \times 10^5 \text{ N}$$

2. 
$$6 \times 10^4 \text{ N}$$

3. 
$$6 \times 10^3 \text{ N}$$

4. 
$$6 \times 10^2 \text{ N}$$

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

$$\frac{1}{273}$$

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

#### The distance travelled by the disturbance per unit time in a given direction is 31

- Wave amplitude 1.
- Wave velocity

3. Wave frequency Wavelength

#### The speed of the transverse wave along the stretched string is given by 32.

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

2. 
$$V = \sqrt{\frac{m}{T}}$$

3. 
$$V = \sqrt{\frac{1}{T}}$$

4. 
$$V = \frac{\sqrt{m}}{T}$$

33.	Abs	orption co-efficient of sound wave is given by	у	Where E <sub>m</sub> i	s energy absorbed by	y th					
	give	n medium $E_{\mathit{ow}}$ is the energy absorbed by o	pen v	vindow.							
	1	$a = \frac{E_m}{E_{ow}} $ 2. $a = \frac{E_{ow}}{E_m}$	3.	$a = E_m \times E_{ow}$	4. $a = E_m + E_{ow}$						
34.	The	rich quality of a musical note depends on									
	1.	Fundamental frequency	2.	Loudness							
	3.	Larger number of over tones	4.	Pitch							
35.	Wax	sing and waning are the characteristics of									
	1.	Periodic motion 2. Oscillations	3.	Beats	4. Frequency						
36.	Velo	ocity of sound in air varies									
	1.	Inversely as the square root of the density	y of t	he 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	The vibrations of a body of decreasing amplitude are called									
	1.	Undamped free vibrations	2.	Damped free vibr	ations						
	3.	Resonant vibrations	4.	Forced vibrations							
38.	Ano	ther name for field emission is									
00.	1.	Cold cathode emission	2.	Thermionic emis	ssion						
	3.	Photoelectric emission	2. 4.								
	Ų.			Secondary emiss							
39.	In o	age of photoslostric emission, the mate of ex-		entretten en vel feri							
39		ase of photoelectric emission, the rate of en	missi	on of electron is							
	1. 2.	Independent of frequency of radiation									
		Dependent on frequency of radiation	4.								
	3.	Dependent on wavelength of incident rad									
	4.	Independent of intensity of radiation									

3.

Spontaneous

4. Very slow

Emission of radiation from radioactive element is

2. Fast

40.

1.

Slow

# PART - B

# 

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

10

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

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

- 3.  $\frac{1}{2}$ 4.  $\frac{-1}{3}$ 6. (2k+1) ment  $\begin{bmatrix} 7 & 4-1 \\ 7 & k-1 \end{bmatrix}$ 6.  $\begin{bmatrix} -1 & 5 \\ 1 & 2 \end{bmatrix}$ 7. (2k+1) ment  $\begin{bmatrix} 7 & 4-1 \\ 1 & k-1 \end{bmatrix}$ 7. (2k+1) ment  $\begin{bmatrix} 7 & 4-1 \\ 1 & k-1 \end{bmatrix}$

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.  $\frac{dy}{dx} \frac{y}{3x} = 0$
- $2. \quad \frac{dy}{dx} + \frac{y}{3x} = 0$   $4. \quad \frac{dy}{dx} \frac{5y}{3x} = 0$
- 3.  $\frac{dy}{dr} \frac{3y}{r} = 0$

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

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

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

- The cofactor of O in  $A = \begin{bmatrix} 3 & -2 & 5 \\ 1 & 6 & 0 \\ 2 & 7 & -4 \end{bmatrix}$  is
  - -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  $\left(x^3 + \frac{1}{x^2}\right)^6$
- 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
- 2. 11

- 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

- The sine of the angle between the vectors  $\vec{a} = i + j + k$  and  $\vec{b} = 2i 3j 4k$  is
- 2.  $\sqrt{\frac{87}{62}}$  3.  $\sqrt{\frac{-5}{\sqrt{87}}}$  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.  $\frac{9}{13}$  3.  $\frac{-9}{13}$

- 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.  $\frac{3}{22}$

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

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

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

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

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

- 4.  $\sin 50^{\circ}$

- The value of  $\cos^{-1} \left[ \tan 135^{\circ} \right]$  is
  - $0^{\circ}$

- The centroid of the triangle formed by the vertices (-10, 6), (2, -2) and (2, 5) is
  - (-2, 3)
- 2. (2, 3)
- 3.  $\left(-3, \frac{9}{2}\right)^{\frac{6}{2}} = \frac{4}{2} \left(-6, 9\right)$
- A point (-4, 3) divides the line AB externally in the ratio of 1:2. Given A(-1, -3) then the point B
  - 1. (6, -3)
- 2. (-10, 15)
- 3.
- 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
- The slope of the line joining the points (-2, 3) and (4, -6) is  $\frac{4}{4}$

- 1.  $\frac{3}{2}$  2.  $\frac{-3}{2}$  3.  $\frac{2}{3}$  4.  $\frac{-2}{3}$
- The equation of straight line passing through (4, -1) and having equal intercepts is 68.
  - x + y 1 = 01.
- 2. x+y-5=0

- The equation of the line passing through (5, -2) and parallel to the line 3x+2y+7=0 is 69.
  - 3x + 2y 11 = 01.

E ( K FO 2: 1. 8x - 2y + 11 = 0 o ovinsurano briocos anti-

- $3x \rightarrow 2y \rightarrow 19 \Rightarrow 0$ 3.
- $x^{268} = x^{4} + x^{16} = 0 \qquad x = x^{16} = 0$

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

- 71. The value of  $\lim_{x \to 0} \frac{lt}{\sin 2x + 3x^2}$  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
- 1.  $e^x$  2. e 3. 1 4. 0

- 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.  $\sqrt{\frac{y}{x}}$
- 4.  $-\sqrt{y}$

- 75. The second derivative of y = log(sec x tan x) is
  - 1.  $-\sec x \tan x$  2.  $\sec x \tan x$
- -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 1.
- 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.  $\left(sec^2 x\right)^2 + c$  4.  $-cot \ x x + c$
- The value of  $\int \frac{\cos x}{1+\sin x} dx$  is
  - $log(sec^2x + sec x tan x) + c$  2. log(sin x) + c

log(1+sin x)+c

- 4.  $\frac{(1+\sin x)^2}{(1+\sin x)^2} + c$
- $\int \sin^2 x \sin 2x \, dx \text{ is}$ 80.
  - 1.  $\frac{\sin^2 x}{2} + c$  2.  $\frac{\sin^4 x}{2} + c$
- 3.  $\sin^2 x + c \qquad 4. \quad \frac{-\sin^4 x}{2} + c$

# **COMPUTER SCIENCE**

81	Which of the following is not true in case of a friend function?									
	1) A friend function	n can be invoked withou	t the use	of a particular	object					
	2) A friend function	n can be invoked without	t the use	of dot operator						
	3) Member functions of one class can become friend functions of another class									
	4) A friend function	n can access data memb	ers direc	tly.						
82.	In case of operator of	verloading								
	1) you can have de	fault arguments	2)	you can overl	oad::operator					
	3) you can overload	l << operator	4)	you can overl	oad ?: operator					
83.	In case of inheritance	ce in C++, which of the f	ollowing	is not possible?	?					
	1) Single inheritance			Multiple inh	eritance					
	3) Hierarchical inheritance			Mega inherit	tance					
84.	In C++ which of the following is not a standard iostream object defined in < iostream h >?									
	1) C in	2) C out	3)	C print	4) C err					
85.	In C++ which of the	following is an ios forma	it functio	n?						
	1) Set f	2) get f	3)	Unget f	4) breadth					
86.	In C++, consider ios	; in. This allows to open	the file	for						
	1) Writing	2) Reading	3)	Appending	4) Binary input					
87.	In C++, exception ha	andling mechanism is de	esigned to	n process	exceptions					
•	Only synchronou	2)	Only asynchronous							
		ous & synchronous	4)	Non synchron						
	-,		• 1							

88.	In	C++, there can be	number th	row stater	nents in a ti	ry block of exceptions	
	1)	Only one	2) Two	3)	Five	4) Any	
89.	In w	C++, the open () furiting same stream obj	nction can be use	ed to oper	1	number of files for re	eading /
	1)	Only one	2) Atmost two	3)	Multiple	4) Atmost ten	
90.	A	process can be defined	as				
	1)	A file in action		2)	A program	in execution	
	3)	A program in a file		4)	A file in ha		
91.	Th	e following sequence o	f process states is	correct			
	1)	New - Ready - Runni	ng - Ready - Termir	nated			
	2)	New - Ready - Waitin	g - Terminated				
	3)	New - Ready - Waitin	g - Running - Term	ninated			
	4)	New - Ready - Runni					
					14-		
92.	Sh	ort term scheduler is a	also termed as				
	1)	CPU Scheduler		2)	Job schedu	iler in the section	
	3)	Medium term Schedu	ıler	4)	Swapper		
				all mills			
93.	Αp	process is allowed to ru	n for a one time qu	ıantum uı	nit. This hap	opens in	
	1)	Pre emptive scheduli		2)	RR Schedu		
	3)	FIFO Scheduling		4)	SJF Schedu	aling	
94.	The	number of process co	mpleted per unit ti	ime is call	ed		
	1)	CPU utilization		2)	Response T	ime all marines must a	
	3)	Turnaround time		4)	Throughput	In mulmanumi met	

95	In	which of the following algorithms used in future for the longest period		faul	t, replacing the page which will not	be
	1)	FIFO algorithm		2)	Optimal page replacement algorithm	
	3)	LRU algorithm		4)	Second chance algorithm	
96.	A	diagram showing process state transi	tion is ca	lled	mind it	
	1)	State queuing Diagram		2)	Process Diagram	
	3)	Queuing Diagram		4)	State Diagram	
97 <sub>%</sub>	Dis	spatcher does not perform which of th		g fur	nctions?	
	1)	Context switching				
	2)	Switch between supervisor mode an	d user m	ode		
	3)	Provide for a jump to a particular us		m		
	4)	Provide for memory mapping				
			f.			
98.	Scl	heduling criteria does not support the	following	5		
	1)	Increase in throughput		2)	Decrease in turnaround time	
	3)	Decrease in response time		4)	Increase in waiting time	
99.		ount of physical main memory that i	s availabl	e for		he
	1)	Virtual memory		2)	Paged segmentation	
	3)	Segmentation militarise like		4)	Stack pointer	
100.		is not a function of physical	layer			
	1)	Representations		2)	Framing Hanguin 1964 1	
	3)	Synchronization of bits		4)	Fine configuration	

10	1. T	he original TCP/IP pr	otocol suite defined wa	as hav	ingla	vers			
		) Four	2) Six	3			Five		
102	2	consists of	two conductors each w	vith it:	s own plastic insul	ator			
		Twisted pair	2) Coaxial cable		Fiber optic cab		Optic	cable	
103	3. A	random amount of	time each station wa	its be					
	1)	Wait time		2)	Back - off time				
	3)	•		4)		.e			
104	. Cs	SMA stands for							
	1)	Carrier sense multi	ple access	2)	Carriage sense	multii	ole acco	800	
	3)	Carrier state multip	le access	4)	Context switch				
							70 dece		
105	Α (	connecting device whi	ch operates at the phy	sical	layer			un p	
		Bridge	2) Gateway	3)	Passive hub	4)	Active		
100									
106.	mo	dels is used a	as a connector device	betw	veen two internet	works	that ı	se diffe	rent
	1)	Gateway	2) Passive hub	3)	Active hub	4)	Repeat	er	
107.	Ele	ectromagnetic waves ves	ranging in the frequency	uency	between	a	re call	ed infra	ared
	1)	300 GHz to 400 THz		2)	1 GHz to 300 GHz	•			
	3)	3 KHz to 1 GHz		4)	1 MHz to 300 MH				
108.	RG	- 58 coaxial cable is u	sed to transmit data in	L					
	1)	Thick ethernet		2)	Thin ethernet				
	3)	Cable TV		4)	Telephones				

109.	ado	dress				net		n it knows only its physical
	1)	ARP		RARP		3)	ICMP	4) IGMP
110.								
		Database administra				2)	Database de	
	3)	Software engineer				4)	System ana	lyst on weather a line
	<b>771</b>			imile				
111.	The			called				
	1)	Database State				2)	Database S	chema
	3)	Database Snapshot				4)	Metadata	
112.	ER	diagram emphasize o	n repr	esenting	g the			
	1)	Snapshot				2)	Instance	
	3)	Attribute				4)	Schema	
		for the state of						
113.	The	e term re	presei	nts row	in SQL			
	1)	Tuple				2)	Relation	
	3)	Schema				4)	Attribute	
114.	The	alternate name giver	to a	relation	is called			
		Alias				2)	View	
	3)	Attribute				4)	Alteration	
	·					·		
115.	Jav	a contains the following	ng dat	atype				
	1)	Struct				2)	Union	
	3)					4)	Enum	
	<b>U</b> )	Tioat				7)	Bildill	

116.	O	bjects in java a	re created	using		operato	or the second	
		New		2) Insta		3)		4) Public
117.	In	hierarchical in	nheritance	there wil	l be			
	1)	Only one sup	erclass					
	2)	One superclas	ss & One s	subclass				
	3)	One superclas	ss & many	subclass	es			
	4)	Only one subo			7			
118.	Th	e mechanism o	f deriving		ss from a	an old	one is called	
	1)	Interfacing				2)	Inheritanc	e findiped of
	3)	Polymorphism				4)	Overriding	
119.	The	keyword supe	r in java i	s used to	invoke th	ne metl	nod of the	11 ndr ##J f gd x#\$1
	1)	Subclass				2)	Object	Will the man was an army
(	3)	Superclass				4)	Constructor	
						''	Constructor	Class
120. I	n >	KML a	is a s	et of struc	tural rul	es call	ed declaration	ns
1	L)	XML	2)	HTML		3)	DTD	4) XHTML
101 7								
121. I	n ) alle	CML entities ( ed	defined re entities	eferenced	anywh	ere in	the conten	t of an XML document are
1	) (	General	2)	Public		3)	Private	4) Parameter
122. A	n X	ML schema is	an XML do	ocument,	so it can	be par	sed with an _	parser.
		KML	2)	XHTML		3)	HTML	4) Namespace

123.	IN	XML	is always p	hysically i	n the file t	that r	represents the doc	cument	
	1)	Document er	ntity			2)	Weak entity		
	3)	Binary entity	•			4).	Entity relation		
124.	In	PHP the proces	ssor has two	modes of	operation	copy	mode and	mode.	
	1)	Dynamic				2)			
	3)	Interpret				4)	Static		
125.	In	PHP fu	ınction expl	odes a str	ing into su	ıbstri	ngs and returns t		
	1)	Explode				2)	Explore		
	3)	Implode				4)	Explicit		
126.	In	PHP thekeys of the gr		ion takes		as it	s parameter and	returns an arra	
	1)	arrayk				2)	array value		
	3)	array-values				4)	array-keys		
127.	In	PHP a variab	ole can be				nether it current		
	1)	Is Value				2)	Is True		
	3)	Is Set				4)	Un Set		
128.	Ch	aracters in PH	P are	bytes	•				
	1)	Single				2)	Double		
	3)	Four				4)	Eight		

129.	ln	PHP implicit conversions are called			
	1)	Recursion	2)	Exclusion	
	3)	Explosion Telefith - Firefith	4)	Coercions	
130.	_	Computer combines the mo	st desira	ble features of	both digital and analog
		computers			
	1)	Analog	2)	Hybrid	
	3)	Digital	4)	Analog digital	
131.	Th is	e characteristic feature which specifies	s the meas	surement of the	performance of computer
	1)	Accuracy	2)	Versatility	
	3)	Reliability	4)	Diligence	
		almost it incompanies if			
132.	Wh	ich of the following memory is placed wi	th in CPU		IX.
	1)	Cache Memory	2)	RAM	
	3)	ROM	4)	PROM	
133.	The	e magnetic disk address comprises of			
	1)	Sector number and track number			
	2)	Track number and surface number			
	3)	Sector number and surface number			
	4)	Sector number, track number and surfa	ace numbe	r munit	
134.	The	most commonly used output device for	printing C	AD and CAM app	lications is
	1)	Plotter	2)	Drum printer	
7	3)	Laser Printer	4)	Daisy wheel pri	

135.	Wh	nich of these is associa	ative	law						
	1)	A+B=B+A				2)	A + (B+C) = (A+B)	+C		
	3)	AB+BC = AC+BC				4)	A(B+C) = AB+BC			
136.	Acc	cording to DeMorgan's	theo	rem A+B	is					
	1)	$\overline{\overline{A}} + \overline{\overline{B}}$	2)	$\overline{A} + \overline{B}$		3)	$\overline{A}  \overline{B}$	4)	AB	
137.	In	which of these gates o	utpu	t is true	when any	one o	f the input is true			
	1)	OR MANUFACTURE STREET STATE	2)	AND		3)	NOT	4)	NOR	
138.	Wh	ich one of these count	er do	oes not re	ecycle in to	en pu	lses			
	1)	Mod-10	2)	BCD		3)	Ripple counter	4)	Decade	
		7.								
139.	The	e sum output of half ac	dder	is identic	cal to	_ gat	e.			
	1)	OR 1	2)	Exclusi	ve OR					
	3)	NOR	4)	Exclusi	ve NOR					
140.	- 1	is a very sma	ll cor	nputer th	nat can be	held	in palm			
	1)	PDA	2)	Laptop		3)	Minicomputer		4) PC	*
141.		is the brain of	com	puter sys	stem					
	1)	IU	2)	OU		3)	CPU	4)	MU	
142.	102	4 bytes is referred to a	as	mund b	oytes					
		Kilo To Topic	2)	Mega		3)	Giga	4)	Tera	

143.		Memory can be	e erased by exposing	it to the	e ultraviolet ligi	nt		
	1)	EEPROM	2) EPROM	3)	PROM	4)	ROM	
144.	DV	D stands for						
	1)	Digital versatile disk		2)				
	3)	Digital virtual disk		4)	Decoded virtue	al disk		
145.	Wh	nich of the following is a	an example for prima	ary mem	ory			
	1)	Magnetic tape		2)	Magnetic disk			
	3)	Magnetic drum		4)	Semiconducto	r memo	ory	
146.	FP	I stands for						
	1)	Frames per inch		2)	Film per inch			
	3)	Faults per inch		4)	Figure per inc	h		
147.	Мо	use, trackball and joyst	tick are examples of					
	1)	Scanning devices		2)	Pointing device	es		
	3)	Storing devices		4)	Multimedia de	evices		
148.	_	terminal is ref	ferred to as non pro	gramma	able terminal			
	1)	Smart		2)	Intelligent			
	3)	Dumb		4)	Interactive			
149.	The	e smallest individual do	ot on computer scree	en is	of the same			
	1)	Pixel Pixel		2)	Character			
	3)	Font		4)	Screen point			
150.	2	is a predefined,	standard C function	n for inp	ut data through	n keybo		
	1)	Fscan ()	2) Print ()	3)	Scanf ()	4)	Printf ()	

151.	_	III C	takes unie	Tellt v	aiues a	t different	LIIII	es during executi	.011		
	1)	Constants		2) V	ariable	S	3)	Keywords	4)	Functions	
152.	In	C the proces	ss of giving	initial	values	to variabl	es is	called			
	1)	Execution			inking		*			Initialization	
153.	In	C # define is	s a		į.						
	1)	Headers file	2				2)	String function			
	3)	Preprocesso	or directive				4)	Library function			
154.	Th	e do while	is an	c	ontrolle	ed loop in	C laı	nguage			
	1)	Entry		2) E	xit	S .	3)	Simple	4)	Multiple	
155.	A	variable decl	ared as		ins			retains its value			
	1)	Auto		2) S	tatic		3)	Extern		Register	
156.	In	C the proce	ess of calli	ng a	functio	n using	poin	ters to pass the	e ado	lress of varia	ble is
	1)	Call by valu	.e					Call by reference			
	3)	Call by oper	ators			4	1)	Call by variables			
157.	In	C s	sets the pos	ition t	o the b	eginning o	of the	e file			
	1)	fclose ()			wind (			Close		End	
158.	In	of the alloca	ited space					bytes and retur			
	1)	malloc ()			alloc ()			free		realloc ()	

				_		and Y	TY 1_			
		Float III			array		int		double	
166.		is an	example of	noı	n primitive data st	ructu	ire ac all of day			
							(4)			
	4)	Value of las	st element							
	3)	Last elemen	nt address							
	2)	Value of fire	st element (	of a						
		The address								
165.	If p	otr is a pointe	er to an arra	ay tl	nen printf ("% d", p	tr) gi	ves			
	1)	Strcat ()		2)	Stremp()	3)	Strcpy()	4)	Strlen ()	
164.	In	C	function ret	turn	s the number of c	harad	cters in a string			
	1)	argv		2)	argb	3)	argc	4)	argp	
163.	The	e variable		give	s the number of a	rgum	ents on the comm	and	line	
	1)	Structure		2)	Union	3)				
162.	In				use the san					
	1)	Recursion	y 1, -y11	2)	Repeating	3)	Chaining	4)	Rewinding	
161.	In (	C when a cal	led function	n in	turn calls another	func	etion a process of		occurs	
									i mino i	
	1)	float		2)	int	3)	double	4)	char	
160.	Тур	oe conversior	ı from float	to _	causes tru	ıncat	ion of the fractions	al pa	rt in C	
	1)	Continue		4)	Dicar	0)	ысср	')	Socori ( )	
139.			_	_	break					
159	The	following st	atement iur	nps	the control out of	loop				

167.	Ι'n	stack, deletio	n operation	n is	done from	of	stack			
	1)	Bottom	Je.	2)	Middle	- 3)	Centre	4)	Тор	
168.					ast element in _		_			
	1)	Circular que	eue	2)	Dequeue	3)	Priority qu	eue 4)	Queue	
169.	ite				ı data item con					
	1)	Linked list			Array					
170.	A s	set of disjoint	trees is ca	lled						
	1)	Ternary tree		2)	Forest	3)	Group	4)	Siblings	
171.	In	tr	caversal of	bina	ary tree root nod	le is visi	ited first			
	1)	Post order		2)	In order	3)	Pre order	4)	First order	
172.	Pos	stfix notation	of a * b - c/	'd is						
	1)	abcd * -/		2)	ab * cd -/				abc - *d/	
									n same	
173.	A r	node with degr	ree zero is	kno	wn as	node				
	1)	\$ibling		2)	Root	3)	Leaf		First	
l74.		pointe	er points to	o the	e next node in th	ne doubl	y linked list	eup ma		
	1)	Left " nh		2)	Successor	3)	Right	4)	Front 1117	
					Space Fee D	ough III	a e la			

175.	Wh	nich of the following is r	not a feature of object	orient	ted programming	
	1)	Data Abstraction		2)	Data Segmenta	ation
	3)	Data Hiding		4)	Polymorphism	
176.	The	e built in stream class	definitions for >>oper	ator a	re available in	
	1)	< iostream.h >		2)	< conio.h>	
	3)	< iomanip.h >		4)	< math.h >	
177.	Th	e scope resolution oper	ator permits you to ac	ccess	the value of a glo	bal variable which is
	1)	Declared in some other	er program			
	2)	Declared outside the	function main ()			
	3)	Declared in main fund	ction of other program	1		
	4)	Not declared				
178.	Fu	nction prototyping allov	ws you to put the defin	nition	of the function _	in the program
	1)	Only before the main	function	2)	Anywhere	
	3)	At the end of main		4)	Only after its u	ısage
179.	Th	e missing arguments C++	in a function call	are sı	applied as	argument values in
	1)	Default	2) Static	3)	Constant	4) reference
180.	Wł	nich of the following is 1	not true in case of a co	onstru	ector function?	
	1)	It has no return type				
	2)	Constructor function	name is same as clas	s nan	ne	
	3)	Constructor is declare	ed in public section of	class		
	4)	Constructor function	can be called like ord	inary	function	
			Space For R	ough	Work	

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