Pakistan Institute of Engineering and Applied Sciences

BS ADMISSION TEST (Sample) TIME ALLOWED: Three (3) Hours

Roll Number:	Question Book No:	·
Name:(Use BLOCK Letters)	Exam City:	
Signature:	Date:	

Please read the following instructions carefully before attempting the question paper.

- Make sure that the question book given to you contains hundred (100) questions in all i.e. twenty (20) questions in Sections I & IV and thirty questions in sections II & III. There is a choice in Section IV which comprises of questions on Chemistry / Computer Science. Candidates have to attempt questions from one field that is either Chemistry or Computer Science.
- 2. Check if you are provided with an answer sheet consisting of one page only.
- 3. Do not bend, roll or fold the printed answer sheet.
- 4. You must write your *Roll No., Name, Exam city and put your signature* in the spaces provided on this page and also on the answer sheet.
- 5. On the printed answer sheet, there are FOUR choices (i.e. A, B, C, and D) for each question. Fill the appropriate choice only with a fine tip black marker or ball point. Erasing is not allowed. Do not overwrite or fill more than one choice for a single question.
- 6. Each correct answer will carry **THREE** marks. For each incorrect answer **ONE** mark will be deducted.
- 7. The question paper is divided into **Four** Sections. As your performance in the written test depends on doing well in **ALL the Four Sections**, you are strongly advised to attempt as many questions as you can from each section.
- 8. You can do your rough work anywhere on the question paper. Do not use the answer sheet for any rough work.
- 9. Put your pens down as soon as you hear **STOP WRITING**, otherwise your paper may be cancelled.
- 10. After the test is over, place your printed answer sheet inside the question paper and return both the question paper and the answer sheet to the invigilator.
- 11. Mobile phones are strictly prohibited in the Examination Hall.
- 12. Use your own calculator only. Borrowing calculator is not allowed.
- 13. Anyone found using unfair means will be disqualified automatically.

SAMPLE TEST PAPER

Section (I): English (Questions 1–20)

Read the following passage and answer the questions given at the end.

Questions 1-5

The general principles of dynamics are rules that demonstrate a relationship between the motions of bodies and the forces that produce those motions. Based in large part on the work of his predecessors, Sir Isaac Newton deduced three laws of dynamics, which he published in 1687 in his famous *Principia*.

Prior to Newton, Aristotle has established that the natural state of a body was a state of rest, and that unless a force acted upon it to maintain motion, a moving body would come to rest. Galileo had succeeded in correctly describing the behavior of falling objects and in recording that no force was required to maintain a body in motion. He noted that the effect of force was to change motion. Huygens recognized that a change in the direction of motion involved acceleration, just as did a change of speed, and further, that action of a force was required. Kepler deduced the laws describing the motion of planets around the sun. It was primarily from Galileo and Kepler that Newton borrowed.

Q1. What was the main purpose of this passage?

- (A) To demonstrate the development of Newton's laws
- (B) To establish Newton as the authority in the field of physics
- (C) To discredit Newton's laws of motion
- (D) To describe the motion of planets around the sun
- Q2. Which of the following scientists established that the natural state of a body was a state of rest?
- (A) Galileo (B) Kepler (C) Aristotle (D) Newton
- Q3. Who was the first scientist to correctly describe the behavior of falling objects?
- (A) Aristotle (B) Newton (C) Kepler (D) Galileo

Q4. According to Huygens, when was acceleration required?

- (A) For a change in direction or in speed
- (B) Only for a change in speed
- (C) Only for a change in direction
- (D) Neither for a change in direction more for a change in speed
- Q5. According to the passage, Newton based his laws primarily upon the work of
- (A) Galileo and Copernicus
- (C) Ptolemy and Copernicus
- (B) Huygens and Kepler
- (D) Galileo and Kepler

Q6. The current trend toward specialization in nearly all occupational groups is exactly the opposite of what is needed. World problems today are so diverse, complex and interrelated that only the generalist stands a chance of understanding the broad picture. Unless our schools stress a truly broad, liberal us as we each expertly perform our own narrow factions.

Each of the following, if true, would weaken the conclusion drawn above, EXCEPT

- (A) Many of the world's problems can be solved only by highly specialization experts working on specific problems.
- (B) Relatively few generalists are needed to coordinate the work of the many specialists.
- (C) Increasingly complex problems require a growing level of technical expertise, which can only be acquired through specialization.
- (D) Even the traditional liberal education is becoming more highly specialized.
- Q7. Aslam is standing to the right of Javaid. Anila is standing on the opposite side of Javaid. Since the opposite of right is wrong. Anila must be standing the wrong side of Javaid.

Which of the following logical errors has the author of the argument above committed?

- (A) He has used a single term to mean two different things.
- (B) He has confused cause and effect.
- (C) He has assumed to be true what he wants to prove to be true.
- (D) He has provided no factual evidence for his conclusion.
- Q8. "The people do not run the country, neither do elected officials. The corporations run the country. Heads of corporations routinely and imperiously hand down decisions that profoundly affect millions of people. The people affected do not vote on the decisions, or for the corporate oligarchs. Yet we are supposed to believe we live in a democracy".

Which of the following statements, if true, would support the author's view?

- I. Corporate lobbies strongly influence the introduction and passage of legislation at all levels of government.
- II. Growing numbers of the most talented college graduates are going to work for private corporations rather than for government.
- III. Few legal requirement are imposed on corporations as to the responsibilities they must fulfill to their employees and their communities.
 - (A) I only
 - (B) II only
 - (C) I and III only
 - (D) II and III only
- Q9. The only unemployment problem we have is not that people can't find work, but they won't work. Thousands of jobs go begging everyday but the unemployed are too lazy to go out and find them.

The above argument would be more persuasive if it were established that

- (A) The majority of available jobs require usually high levels of skill or experience or both.
- (B) Most unemployed persons are back at work within six months.
- (C) Most unemployed persons do not seek work until there unemployment benefits expire.
- (D) A high unemployment rate has been fostered by the government in order to control inflation.
- Q10. Leafleting and speechmaking on government property should be outlawed. Radicals and functions have no right to use public property when pending their unsavory views.

The argument above is based on the assumption that

- (A) Radicals and fanatics prefer using public property when disseminating their views.
- (B) The general public has a vested interest in the free exchange of varied political views.
- (C) Political activities that interferes with the orderly functioning of government should not be protected by law.
- (D) All those who leaflet and make speeches on government property are radicals and fanatics.

Fill in the blanks by choosing appropriate words.

Q11. Last year Beckham	the footbal		
A) lead	B) lay	C) led	D) laid
Q12. A number of individuals warning.	••••••	.displaced from their h	nomes due to flood
A) would be	B) w	ould have been	
C) will	D) w	ould have	
Q13.			
•			
•			
•			
020			

Section (II): Mathematics (Questions 21-50)

Q21.
$$\frac{d}{dx}(e^x \ln x) =$$

(A)
$$e^x \left(\frac{1}{x} + \ln x\right)$$
 (B) $\frac{1}{x} \left(e^x + \ln x\right)$ (C) $e^x + \frac{\ln x}{x}$ (D) $\frac{e^x}{x} + x$

(C)
$$e^x + \frac{\ln x}{x}$$

(D)
$$\frac{e^x}{x} + x$$

Q22.
$$\begin{vmatrix} 0 & 0 & 1 & 2 & 3 \\ 1 & 2 & 3 & 4 & 5 \\ 0 & 0 & 0 & 3 & 4 \\ 0 & 1 & 0 & 2 & 3 \\ 0 & 0 & 0 & 0 & 2 \end{vmatrix} =$$

$$(B) -3$$

Q23.
$$\int_{0}^{\frac{2}{3}} e^{-(3t-2)^{2}} dt =$$

(A)
$$3\int_{0}^{\frac{2}{3}} e^{-u^{2}} du$$

(B)
$$3\int_{0}^{2} e^{-u^{2}} du$$

(C)
$$\frac{1}{3}\int_{0}^{0}e^{-u^{2}}du$$

(A)
$$3\int_{0}^{\frac{2}{3}} e^{-u^{2}} du$$
 (B) $3\int_{0}^{2} e^{-u^{2}} du$ (C) $\frac{1}{3}\int_{2}^{0} e^{-u^{2}} du$ (D) $3\int_{2}^{0} e^{-u^{2}} du$

Q24. If $y^3 + xy^2 - 2x = 0$ defines y implicitly as a function of x, then the value of $\frac{dy}{dx}$ at the point (4, -2) is

(A) -
$$\frac{1}{2}$$
 (B)- $\frac{1}{8}$ (C) $\frac{1}{4}$

(B)-
$$\frac{1}{8}$$

(C)
$$\frac{1}{4}$$

(D)
$$\frac{1}{2}$$

Q25. If $\mathbf{a} + \mathbf{d} \neq \mathbf{0}$ and $\begin{pmatrix} a & b \\ c & d \end{pmatrix}^2 = \begin{pmatrix} 1 & 0 \\ 0 & 1 \end{pmatrix}$, then ad is

$$(A)$$
 –

Q26. $\lim_{x \to 0} \frac{1}{x} \left[\cos \left(\frac{\pi}{6} + x \right) - \cos \frac{\pi}{6} \right] =$

(A)
$$-\frac{\sqrt{3}}{2}$$
 (B) $-\frac{1}{2}$ (C) $\frac{1}{2}$

(B)
$$-\frac{1}{2}$$

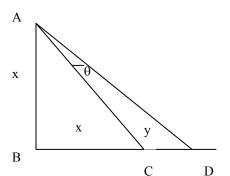
(C)
$$\frac{1}{2}$$

- Q27. What is the y-intercept of the line tangent to the graph of $y = \frac{1}{x}$ at $(2, \frac{1}{2})$?
 - (A) $\frac{1}{2}$
- (B) 0
- (C) $\frac{1}{2}$
- (D) 1
- Q28. The number of values of x where the function $f(x) = \cos x + \cos(\sqrt{2} x)$ attains its maximum value is
 - (A) 0
- (B) 1

(C) 2

- (D) ∞
- **Q29.** If $f(x) = x^3 3x + 3x$ then $f(\sqrt[3]{7} + 1)$ equals
 - (A) 6
- (B) 7
- (C) 8
- (D) 9
- Q30. If the number of subsets with 4 elements of a set A is equal to the number of subsets with 5 elements of the set, then the number of subsets with 3 elements of this set is:
 - (A) 64
- (B) 84
- (C) 128
- (D) none of the above
- Q31. If f(a.b) = f(a) + f(b) and f(2) = 3, then f(32) equals
- (B) 12
- (D) none of the above
- Q32. If f (x) = x-2 and g (x,y) = $y^2 + x$, then g (3, f(4)) is
 (A) 7 (B) 14 (C) 21

- (D) 28
- Q33. If m men can do a job in d days, then m+r men can do the job in:
 - (A) d-r days
- (B) $\frac{md}{m+r}$ days (C) $\frac{d}{d+r}$ days
- (D) none of the above
- Q34. Tan θ in the accompanying diagram is:
 - $(A) \frac{y}{y + 2x}$
 - (B) $\frac{x}{y+x}$
 - (C) $\frac{y}{y+x}$
 - (D) $\frac{y}{x}$



- Q35. How many different 3-digit number divisible by 5 can be formed using the elements of the set $A = \{1,2,3,4,5,6\}$
- (B) 24
- (C) 40
- (D) none of the above
- Q36. The sum of the integral values of x so that the function $f(x) = \frac{\sqrt{5-x}}{\sqrt{x-1}}$ is defined in
 - the set of real numbers is:
 - (A) 14
- (B) 15
- (C)5

(D) none of the above

Q37. If $f(x) = 4^x$ then f(x+1) - f(x) equals

- (B) f(x)
- (C) 2f(x)
- (D) 3f(x)

Q38. The sum of roots of equation $x^2 - x + 1 = 0$ is:

- (D) -1

 $\mathbf{Q39.} \quad \sum_{n\to 0}^{\infty} \left(\frac{1}{4}\right)^n =$

- (A) $\frac{1}{4}$ (B) $\frac{3}{4}$
- (C) $\frac{2}{4}$
- (D) none of the above

Q40. Minimum number of points required to define a plane are

- (A) 1
- (B) 2

(C) 3

(D)4

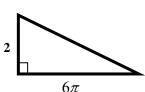
Q41. If x = 1 + i where $i = \sqrt{-1}$, then x^5 is:

- (A) 2-2i
- (B) 2+2i
- (C) -2-2i
- (D) -2+2i

Q42. $\log_2 x = \log_c x/?$

- $(A) log_2 2$
- (B) $log_2 c$
- $(C) \log_c 2$
- (D) log_c c

Q43. What is the radius of the circle with area equal to the area of the following right triangle?



- (A) $\sqrt{3}$
- (B) $2\sqrt{3}$ (C) $\sqrt{6}$
- (D) $2\sqrt{6}$

Q44. Twelve students in a class average 70% on a certain test. Eighteen others average 80%. What is the overall average of the thirty students as a percent?

- (A) $74\frac{3}{4}$ (B) $75\frac{1}{4}$ (C) 76 (D) $77\frac{1}{8}$

Q45. If $y = x^{x^2}$ then $\frac{dy}{dx} =$

(A) x^{2+1}

(C) $[2 \ln x + 1]$

(B) $x^{x^2+1}[2\ln x + 1]$

(D) x^2x^{2-1}

Q46.

Q50.

Section (III): Physics (Questions 51-80)

Q51.	Of the follow						
po	sitron is;						
	(A) Photon		(C) Electron	1			
	(B) Alpha par	ticle	(D) Proton				
Q52.	A ball is pro	jected vertica	ally upward fr	om the surfa	ice of the e	arth and reacl	es its
m	aximum heigl	it in 4.0 secor	nds. The ball's	initial speed	, in meters	s per second is	
ap	proximately						
	(A)20	(B)	40	(C) 80	(D) 10	00	
Q53.	The conduct	ivity in meta	llic wires depe	nds on			
	(A) Free elect	rons only					
	(B) Positive id	ons only					
	(C) Negative	ions only					
	(D) Positive id	ons, negative i	ions and electro	ons			
Q54.	Momentum	is a quantity	whose unit mi	ght be the			
	(A) foot-poun	d	(C) e	_			
	(B) newton		` / '	gram centime	-		
Q55.	Two rectang	gular tanks st	and next to ea	ch other on a	a horizonta	al table. The ar	ea of
			s 40 square cer	*			
sq	uare centimet	tong Doth ton	1 (*11 1	• . •	tha cama h	reight. The rat	of the
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lic	quid pressure	on the botton	n of the second	l tank to tha	t of the bot	ttom of the firs	
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Q56.	quid pressure (A) l Two freely f	on the botton (B) a alling objects	n of the second 2 s, one 10 kg and	l tank to tha (C) 4 d one 20 kg,	t of the bot (D) 10 are dropp	ttom of the firs 6 ed from the sa	t tank is me
Q56. he	quid pressure (A) l Two freely feight at the sai	on the botton (B) a alling objects	n of the second 2	l tank to tha (C) 4 d one 20 kg,	t of the bot (D) 10 are dropp	ttom of the firs 6 ed from the sa	t tank is me
Q56. he	quid pressure (A) 1 Two freely feight at the saure) true?	on the bottom (B) 2 Calling objects me time. Air	n of the second 2 s, one 10 kg and resistance is no	l tank to tha (C) 4 d one 20 kg, egligible. Wh	t of the bot (D) 10 are dropp nich of the	ttom of the firs 6 ed from the sa following state	t tank is me
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Q56. he (a Q57. th	(A) 1 Two freely feight at the sarre) true? I. Both II. Both III. Both (A) III only If a stone at e stone (A) is inversel (B) is inversel (C) is proport A change in (A) 25 The bending	on the bottom (B) ? Falling objects me time. Air r objects have objects fall w objects have (B) ? the end of a selly proportional ly proportional ional to the sp ional to the sq temperature (B) ?	n of the second 2 s, one 10 kg and resistance is no the same potential the same special I and II only string is whirle I to the speed of to the square of eed uare of the special of 450 C corre 45 lic strip when	d tank to tha (C) 4 d one 20 kg, egligible. When tial energy acceleration. d just before (C) II and ed in a circle of the object of the speed ed esponds to a (C) 81 heated is pri	t of the bot (D) 10 are dropp nich of the at the top. hitting the III only the inwar	ed from the sa following state e ground. (D) I, II, and rd pull of the sa	t tank is me ements is
Q56. he (a	(A) 1 Two freely fight at the same) true? I. Both II. Both III. Both (A) III only If a stone at the stone (A) is inversel (B) is inversel (C) is proport (D) is proport A change in (A) 25 The bending (A) the good of	on the bottom (B) 2 Falling objects me time. Air in objects have objects fall we objects have (B) 2 Ithe end of a selection of the selection o	the same potential to the square of the square of the speed of 450 C correction of the two metals.	d tank to tha (C) 4 d one 20 kg, egligible. Whential energy ecceleration. d just before (C) II and ed in a circle of the object of the speed ed esponds to a (C) 81 heated is prils	t of the bot (D) 10 are dropp nich of the at the top. hitting the III only the inwar	ed from the sa following state e ground. (D) I, II, and rd pull of the sa	t tank is me ements is
Q56. he (a Q57. th	(A) 1 Two freely fight at the sarre) true? I. Both II. Both III. Both (A) III only If a stone at e stone (A) is inversel (B) is inversel (C) is proport (D) is proport A change in (A) 25 The bending (A) the good of (B) the large of	on the bottom (B) 2 calling objects me time. Air in objects have objects fall we objects have (B) 1 the end of a selly proportional ly proportional ional to the spinonal to the squeenerature (B) 4 g of a bimetal conductivity of	n of the second 2 s, one 10 kg and resistance is not the same potential the same at the same speed. I and II only string is whirled to the square of the speed on 450 C correct the two metal expansion of both second to the two metal expansion of both second to the square of the speed of 450 C correct the two metal expansion of both second to the square of the two metal expansion of both second to the second to the square of the speed to the square of the speed to the square of the speed to the square of the square of the speed to the square of	I tank to tha (C) 4 d one 20 kg, egligible. When tial energy ecceleration. d just before (C) II and ed in a circle of the object of the speed esponds to a (C) 81 heated is prilis oth metals	t of the bot (D) 10 are dropp nich of the at the top. hitting the III only the inwar	ed from the sa following state e ground. (D) I, II, and rd pull of the sa	t tank is me ements is
Q56. he (a Q57. th	(A) 1 Two freely fight at the sarre) true? I. Both II. Both III. Both (A) III only If a stone at e stone (A) is inversel (B) is inversel (C) is proport (D) is proport A change in (A) 25 The bending (A) the good of (B) the large of	on the bottom (B) 2 calling objects me time. Air in objects have objects fall we objects have (B) 2 the end of a selection of the spin on all to t	the same potential to the square of the square of the speed of 450 C correction of the two metals.	I tank to tha (C) 4 d one 20 kg, egligible. When tial energy ecceleration. d just before (C) II and ed in a circle of the object of the speed esponds to a (C) 81 heated is prilis oth metals	t of the bot (D) 10 are dropp nich of the at the top. hitting the III only the inwar	ed from the sa following state e ground. (D) I, II, and rd pull of the sa	t tank is me ements is

	_	is heated at	constant pres	sure, w	hich of the follow	wing descript	tions will
ar	oply?	-			•• .		
	I.		_	_	onal to the tempe	erature	
	II.				cules decreases		
	III.	i ne kineu	c energy of the	e moiec	cules increases		
	(A) I on	ly	(C) I	and II o	only		
	(B) I and	d III only	(D) II	and II	I only		
Q61.					nected in series to		
VC					s. The current th	rough the 60	ohm resistor
			ted with the giv	en info	rmation		
	` /	out 1.3 A					
	(C) is 4.0						
	(D) is 5.0						
_	•	-			a concave spheri		
cu				ance of	the image from		
	(A) 5 cm		(B) 10 cm	_	(C) 15 cm	(D) 20	
		_		_	uce 3 beats per so		of the
fr			ations per seco		e other frequency	y will be?	
	(A) 1200			\ /	03 vib/sec		
0.44	(B) 397 v			(D) I	33.33 vib/sec		
Q64.	-	consist of		(0)	6.1		
		ream of neut			stream of electro		
065	` /		to radon	` /	adiation similar to		
Q65.	_		at sound trave	eis 1100	feet in air, light	can travel in	vacuum a
aı	stance of		(D) 200000 m		(C) 20000 mile	a (D)11	000 1
066	(A) 1100				(C) 20000 mile		
Q66.	_		_	arın. K	Relative to the rad	aio signais it	senas out, the
SI	0	ived on the o		(C) a	higher velocity		
		wer frequend orter wavele	-	` /	ll of the above		
067					ood electrical cor	nductors over	ont
Qu/.					(C) silver		
Q68.					romagnetic radi		
•	er quantu		ing examples	or elect	Tomagnene Taul	audii nas tiic	most energy
p	(A) Radi		(B) Microwa	vec	(C) visible light	t (D) X-	-rave
Q69.	· /				connected in seri	, ,	2
_		e is closest to		ii aic	connected in seri	ies, then ther	c total
Ca	-						
	(A) 0.03	33F	(B) 0.3333F		(C) 0.3F	(D) 3.	0F
Q70.	Atomic	spectra can	be explained	by			
	(A) The	Bohr atomic	model	(C)	Quantum Mechanio	cs	
		ntized orbits		\ /	All of the above		
Q71.	When	$^{35}_{92}U$ decave $^{135}_{12}$	ov alnha nartic	ele emi	ssion, the daught	er nuclei for	med is
Ψ /1.	(A) $^{231}_{90}T$	h Th	(B) $\frac{233}{91}Pa$		(C) $\frac{234}{91}Pa$	(D) $\frac{239}{94}$	$^{9}D_{11}$
	$(\Delta)_{90}I$	1 L	$(D)_{g_1}Iu$		$(C)_{91}Iu$	(D) 94	1 I U

Q72. We can increase the capacitance of a parallel plate capacitor by

- (A) cooling the plates.
- (B) bringing the plates closer together.
- (C) decreasing the dielectric constant of the material between the plates.
- (D) increasing the voltage across the plates.

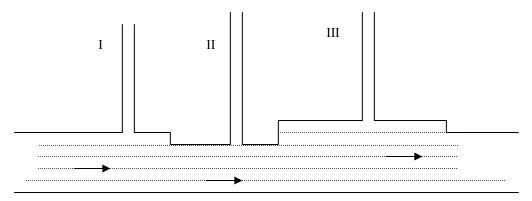
Q73. Terminal velocity is usually defined as the

- (A) velocity of shock waves
- (B) velocity of light in water
- (C) velocity at which air resistance balances gravity
- (D) All of the above

Q74. Our sun releases energy by nuclear fusion reactions. What actually happens?

- (A) Hydrogen is converted to helium
- (B) Helium is converted to hydrogen
- (C) Two nuclei change into one nucleus
- (D) One nucleus splits into two nuclei

Q75. Water flowing through a tube having variable cross-sectional area is shown in the figure below.



The water will attain the maximum level in

- (A) tube I
- (B) tube II
- (C) tube III
- (D) all the tubes.

Q76.

.

Q80.

Section (IV): Chemistry (Questions 81-100)

Q81.	•		_			-	ur. After t second, 0	.8
	-	rogen re	mains. In	e number	or motes o	ı nyarogen	iodide formed at t	
	seconds is (A) 0.2		(B) 0.4	(C)	00 (D) 1.6		
082	()		· /	(C)	•	. /	the air because	
_	The ΔH for t			•	•	exposed to	ille all because	
) Reaction bet					ct		
) The reactants	-	_	-	-	3i		
) Not enough i					act		
`	,						⇒ 2NH3(g), the	
Quo.							d give the best yield	٥f
	ammonia at			e. Willen b	et of conu	would would	a give the best field	01
A)	800 atmosph							
	1 atmosphere							
	1 atmosphere							
	800 atmosph							
Q84.	A sample of	copper	powder wa	as contam	inated with	n zinc dust.	Pure copper was	
	obtained fro	m it by	heating wi	th excess o	of acid, filt	ering and v	washing. Which of the	he
	following ac	ids was	used?					
)Dilute nitric							
) Concentrated							
) Dilute hydro							
) Concentrated				_	_		
Q85.				2CO(g),	what mass	of carbon	is required to form	
	2.24 liters of			(0) (0	(D) 1	2.0	
	$0.6 \mathrm{g}$	(B) 1.2	-	(C) 6	-	(D) 1	_	
Q86.	-	y of elect	cricity will	liberate of	ne gram-a	tom of the	metal form a solutio	n
()	of	(D)	D ₂ C12	(C)	CCO4	(D)	NaC1	
Q87.)AuCl3	(B)	BaCl2	(C)	CuSO4	(D)	NaCl n 4/5 nitrogon Who	
Q07.							n, 4/5 nitrogen. Whe occurs: 2C + O2(g)_	
	2CO(g). If a							→
	composition					monoxiuc,	what is the	
(A) 1/5 carbon m	, •			accu.			
) 1/3 carbon m							
) 2/5 carbon m							
) 1/2 carbon m		_					
Q88.	•		_		When it is	burned in	oxygen and the	
				-			s than 7. The elemen	ıt
	could be		,	8		-		
(A) Silicon	(B) So	dium	(C) S	ulphur	(D) A	Aluminium	
Q89.	Which elect	ron arra	ngement r	epresents	the atom o	of the most	active non-metal?	
(A)2,6	(B)	2, 8, 6	(C)	2. 7	(D)	2, 8, 7	

Q90.	Which of	the following	ng gases	does not giv	e a precipitat	e with a	n ammoniacal
			ate but	decolourizes	KMnO4?		
) Acetylene	;					
` ′	Ethane						
` ′	Ethylene						
\ /) Methane						
		hyde reacts	with PO	Cl5 to give			
` '	Benzal ch						
` /	Benzoyl c						
` /	Benzyl ch						
(D)	Benzophe)	none					
O92.	Which is	the final pr	oduct of	f reduction o	f nitrobenzen	e?	
) Aniline	•					
	Azobenze	ne					
` ′	Nitrosobe						
` /		droxylamine					
				ound in alken	ies is		
	Chain ison						
(B)	Mesomeri	ism					
(C)	Position is	somerism					
		cal isomerisr	n				
Q94.	Which of	the following	ng will d	lissolve in so	dium hydroxi	de solut	ion?
(A)) Toluene	(B)	Phenol	(C)	Aniline	(D)	Benzene
Q95.	Which of	the following	ng descr	ribes the effe	ct of a catalys	t?	
		Activation		Enthalpy of			
		energy		reaction			
	(A)	decreased		decreased			
	(B)	decreased		increased			
	(C)	unchanged		decreased			
	(D)	decreased		unchanged			
Q96. Q97.							

Q100.

Section (IV): Computer Science (Questions 81-100)

_	A mechanism that stributed all over th			form	ation on different web si	tes and	data	ibases
	(A) browser	(B)	Trojan		(C) search engine	(D)	web	server
Q82.	A light pen is (A) optical input de (C) optical output d				electronic input device mechanical input device			
Q83.	Each set of bit pat (A) Code		called Unicode		(C) Coding		(D)	ASCII
Q84.	In MS Word, the s (A) Ctrl+}		t key to i Ctrl+{	ncrea	ase the size of the font is (C) Ctrl+((D)	Ctrl+)
Q85.	The locations of m (A) Randomly (C) Only parallel	emory	(RAM) a	(B)	e accessed Only Sequentially Only simultaneously			
(A (E (C	A) not fail as printf deB) fail if no printf def	finitior inition	is not red is availab	quired le at d			will:	
Q87.	1TB storage device (A) 1024GB		tore 2048GB		(C) 4096GB		(D)	8096GB
Q88.	Which of the followard (A) Memory Contr	_	not an in (B) G		etion processing device (C) CPU		(D)	DSP
Q89.	The purpose of cac (A) Temporal and s (C) Spatial locality	patial l	_	r is t	(B) Temporal locality (D) None of these	only		
Q90.	Which of the follow (A) ALU, Control U (C) ALU, Control U	Jnit, Re	egister File		(B) ALU, Cor (D) ALU	ntrol Ur	nit, R	AM

Q91.	URL stands for (A) Uniform Resource (C) Unified Resource		. /	Uniform Registered Ident Uniform Resource Link	rifier	
O92.	A collection of relate	ed fields in a da	atab	ase is called		
	(A) Record	(B) Character		(C) Database	(I	O) File
Q93.	In programming lan	guage BASIC	, sta	tements ending with REM	I are con	sidered as
	(A) Narrative	(B) U:	nma	ked strings		
	(C) Marked strings	(D) U	nma	rked variables		
•						
Q100	•					