### **National University of Modern Languages Rawalpindi**

## **Faculty of Engineering & Computer Science**

## **Entry Test Paper Pattern**

Program: BSCS / BSSE / BEEE / BS Elect / BSAI / BSIT

Time Allowed: 1 hour (60 Mins)

Paper Type: Objective type (MCQs based)

**Total Questions: 75** 

Sections: Four

#### Details of Sections:

### **Pre- Medical Group:**

i.	Section II: English	(15 questions)
ii.	Section III: Physics	(20 questions)
iii.	Section I: Chemistry	(20 questions)
iv.	Section IV: Biology	(20 questions)

### **Pre- Engineering Group:**

v.	Section II: English	(15 questions)
vi.	Section III: Physics	(20 questions)
vii.	Section I: Mathematics	(20 questions)
viii.	Section IV: Chemistry	(20 questions)

### **ICS and Others Group:**

ix.	Section II: English	(15 questions)
х.	Section III: Physics	(20 questions)
xi.	Section I: Mathematics	(20 questions)
xii.	Section IV: Computers	(20 questions)

Note: Calculator are NOT allowed

# **Model Paper**

## **Section I - Mathematics**

1-	If $(x) = e^{2x}$ , then $f'''(x) =$		
	A) $6e^{2x}$	B)	1/6 <i>e</i> <sup>2x</sup>
	$C)$ $8e^{2x}$	D)	$1/8e^{2x}$
2-	A man buys a cycle for Rs. 1400 and	sells	s it at a loss of 20%. What is the
	selling price of the cycle?		
	(A) (A)	A)	(A)
	C) C)	C)	(C)
3-	The graph of linear function is:		
	A) Circle	B)	Straight Line
	C) Parabola	D)	Triangle
4-	Two surfaces are said to be orthogor	nal a	t appoint of their intersection if
	their normal at that point are		
	A) A)	A)	A)
	C) C)	C)	(C)
5-	$\frac{d}{dx}e^{-2x}$		
	(A) e <sup>-2x</sup>	B)	-2e <sup>-2x</sup>
	C) -2xe <sup>-2x</sup>	D)	1/e <sup>2x</sup>

# Section II – English

1-	The	e Prime Minister will appear	tel	evision tonight.
	A)	A)	A)	A)
	C)	(C)	C)	(C)
2-	Sh	e speaks three languages	_Urd	u.
	A)	Although	B)	Besides
	C)	Whereas	D)	Along
3-	She said, "I may drive there",			
	A)	She said that she may driven	B)	She said she might drive there
		there		
	C)	She said she may drive	D)	She said she has driven there
4-	I	him to go.		
	A)	Told	B)	Spoke
	C)	Said	D)	Let
5-	Syı	nonym of Dreadful		
	A)	Enrage	B)	Wrathful
	C)	Awful	D)	Furious

Section III – Physics

1-	Emissivity of perfectly black body is		
	A) A)	A)	A)
	(C) (C)	C)	(C)
2-	Work done will be maximum when a	ngle	between Force and
	displacement is		
	A) 180	B)	60
	C) 90	D)	0
3-	Energy transforming process that or	ccur	within an organism are named
	as		
	(A) (A)	A)	(A)
	(C) (C)	C)	(C)
4-			
	is equal to the amount of current multiplied by the resistance		
	A) Potential	B)	Potential Difference
	C) Charge	D)	Current
5-	Two long current carrying wires attra	act e	ach other when currents are in
	A) Opposite Direction	B)	Same Direction
	C) Parallel Direction	D)	Series

# Section IV – Computers

1-	MS-DOS has		
	A) Command Line Interface	B) Graphical User Interface	
	C) Menu Line Interface	D) Utility Driven Interface	
2-	Identify the device through which da	ta and instructions are entered into a	
	computer?		
	A) Software	B) Input Device	
	C) Output Device	D) Memory	
3-	(35) <sub>10</sub> = () <sub>2</sub> ?		
	A)   100011	B) 110011	
	C) 100001	D) 111001	
4-	Arrange in descending order the uni	ts of memory TB, KB, GB, MB	
	A) TB>MB>GB>KB	B) MB>GB>TB>KB	
	C) TB>GB>MB>KB	D) GB>MB>KB>TB	
5-	The termis used to refer to a row.		
	A) Attribute	B) Tuple	
	C) Instance	D) Field	

## Section V – Chemistry

1-	The term PVC used in the plastic industry stands for		
	A) Polyvinyl chloride	B) Polyvinyl carbonate	
	C) Phosphors vanadium Chloride	D) Polyvinyl carbocarbonate	
2-	The material that can be deformed permanently by heat and pressure is		
	called a		
	A) Polymer	B) Thermoplastic	
	C) Chemical Compound	D) Thermoset	
3-	Valency of Hydroxide ion (OH) is		
	A) -1	B)  -2	
	C) -3	D) 1	
4-	Atmosphere contains dust particles	, salt grains, pollen grains, smoke,	
	etc. which are collectively known as	:	
	A) Water vapour	B) Ozone	
	C) Aerosols	D) CFC	
5-	The Formula of Sodium Hydroxide i	S	
	A) Na(OH) <sub>2</sub>	B) NaOH	
	C) Na <sub>2</sub> (OH) <sub>3</sub>	D) Na <sub>2</sub> OH	

# $Section\ VI-Biology\ (Pre-Medical)$

1-	For the impulse of transfer from presynaptic to post-presynaptic neuron,			
	the substance required is			
	A)	Sodium	B)	Potassium
	C)	Proteins	D)	Calcium
2-	Study of form and structures of living organism			
	A)	Skeletology	B)	Microbiology
	C)	Morphology	D)	Biochemistry
3-	A_	is defined as a group o	f org	ganisms capable of
	inte	erbreeding and producing fertile of	ffspr	ring
	A)	population	B)	Species
	C)	Prokaryotes	D)	Community
4-	ΑF	amily is a group of related		
	A)	Genera	B)	Order
	C)	Species	D)	Phylum
5-	Pores in the cell walls of adjacent cells, through which their cytoplasm is			nrough which their cytoplasm is
	connected			
	A)	Peptidoglycan	B)	Protoplasm
	C)	Plasmodesmata	D)	Chitin