National University of Modern Languages

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)
x.	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) $1/6e^{2x}$	
	C) $8e^{2x}$	D) $1/8e^{2x}$	
2-	A man buys a cycle for Rs. 1400 and sells 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 orthogonal at 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^{-2x}	B) -2e^{-2x}	
	C) -2xe^{-2x}	D) 1/e^{2x}	

Section II – English

1-	The Prime Minister will appear _____ television tonight.		
	A) A)	A) A)	
	C) C)	C) C)	
2-	She speaks three languages _____ Urdu.		
	A) Although	B) Besides	
	C) Whereas	D) Along	
3-	She said, "I may drive there",		
	A) She said that she may driven there	B) She said she might drive 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-	Synonym 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 angle between Force and displacement is		
	A)	180	B)	60
	C)	90	D)	0
3-	Energy transforming process that occur 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 attract each 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 data and instructions are entered into a computer?		
	A)	Software	B)	Input Device
	C)	Output Device	D)	Memory
3-	$(35)_{10} = (\ )_2$?		
	A)	100011	B)	110011
	C)	100001	D)	111001
4-	Arrange in descending order the units 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 term _____ is 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 is		
	A) $Na(OH)_2$	B)	NaOH
	C) $Na_2(OH)_3$	D)	Na_2OH

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 of organisms capable of interbreeding and producing fertile offspring		
	A) population	B)	Species
	C) Prokaryotes	D)	Community
4-	A Family 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 connected		
	A) Peptidoglycan	B)	Protoplasm
	C) Plasmodesmata	D)	Chitin