

### Office of the Admissions

#### **NOTICE**

Admissions are open for the following **MPhil programs** at the University of Narowal:

- 1. M.Phil. Botany
- 2. M.Phil. Education
- 3. M.Phil. Environmental Science
- 4. M.Phil. Management Sciences
- 5. M.Phil. Mass Communication & Media
- 6. M.Phil. Mathematics
- 7. M.Phil. Physics
- 8. M.Phil. Zoology
- 9. M.Phil. Food Science & Technology

#### **Entry Test Requirement**

All applicants who **do not possess a valid GAT (General)** result are required to appear in the **University's Entry Test** as part of the admission process.

**Max Time Allowed:** 02 Hours

#### **Sample Questions**

#### **General Aptitude Section (50 Marks)**

#### 1. Quantitative Reasoning (20 Marks)

Q1. If 4x - 7 = 25, what is the value of x?

a) 8

b) 7

c) 6

d) 9

**Q2.** A shopkeeper bought an item for Rs. 600 and sold it at a 15% profit. What was the selling price?

- a) Rs. 690
- b) Rs. 660
- c) Rs. 705
- d) Rs. 720

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Q3. What is the	ne next numbe	r in the sequenc	e: 2, 6, 12, 20,?			
a) 30	b) 28		c) 24	d) 26		
2. Qualitative	Reasoning (2	20 Marks)				
Q1. Choose th	ne synonym fo	r <b>"resilient"</b> :				
a) fragile	b) fle	xible	c) rigid	d) hesitant		
Q2. Complete	the analogy:					
Book is to Rea	ading as Knife	is to:				
a) Drawing	b) Cu	tting	c) Writing	d) Cleaning		
Q3. Which sen	ntence is gram	matically correc	et?			
a) She don't likes cold coffee.			b) He go to school every day.			
c) They were playing outside.			d) The boy run fast.			
3. Analytical	Reasoning (1	0 Marks)				
Q1. All engin must be true?	eers are creati	ve. Some creati	ive people are musicia	ns. Which of the following		
a) All musicians are engineers.			b) Some engineers are musicians.			
c) Some musicians may be creative.			d) All creative people are engineers.			
Q2. If all appl	es are fruits an	nd all fruits grov	w on trees, then:			
a) All trees are apples.			b) All fruits are apples.			
c) All apples grow on trees.			d) None of the above.			
Q3. A is taller	than B. C is t	aller than A. Wh	no is the tallest?			
a) A	b) B	c) C	d) Cannot be determi	ned		



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#### **Subject-Relevant Sample Questions (50 Marks)**

#### M.Phil. Botany

- Q1. Which plant hormone promotes cell elongation?
- a) Cytokinin b) Auxin c) Ethylene d) Abscisic Acid
- Q2. The process by which green plants prepare food is called:
- a) Respiration b) Photosynthesis c) Fermentation d) Digestion
- Q3. Xylem is primarily responsible for:
- a) Food transport b) Water transport c) Storage d) Photosynthesis

#### M.Phil. Education

- Q1. Who is known as the father of modern education?
- a) Plato b) John Dewey c) Aristotle d) Rousseau
- Q2. Formative assessment is mainly used to:
- a) Assign grades b) Evaluate teachers c) Improve learning d) Measure IQ
- Q3. Bloom's Taxonomy is a classification of:
- a) Teaching aids b) Curriculum types c) Learning objectives d) School levels

#### M.Phil. Environmental Science

- Q1. Which gas is the major contributor to global warming?
- a) Oxygen b) Nitrogen c) Carbon Dioxide d) Helium



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Q2. EIA stands for:

a) Environmental Impact Act

b) Environmental Information Agency

c) Environmental Impact Assessment

d) Earth Intelligence Analysis

Q3. Acid rain is mainly caused by:

a) CO2 and CH4

b) SO<sub>2</sub> and NOx

c) CFCs and ozone

d) PM 2.5 and PM 10

#### M.Phil. Management Sciences

Q1. SWOT analysis includes:

- a) Statistics, Workload, Optimization, Trends
- b) Strengths, Weaknesses, Opportunities, Threats
- c) Sales, Workers, Output, Time
- d) Strategy, Work, Operations, Technology
- Q2. Leadership style that involves employees in decision-making is:
- a) Autocratic b) Laissez-faire c) Democratic d) Authoritarian
- Q3. Market segmentation is based on:
- a) Age b) Income c) Interests d) All of the above

#### M.Phil. Mass Communication & Media

- Q1. "Agenda-setting" is a theory related to:
- a) News framing b) Public opinion c) Entertainment d) Advertising
- Q2. The term "Fourth Estate" refers to:
- a) Judiciary b) Legislature c) Media d) Bureaucracy
- Q3. A message is decoded in the communication process by the:
- a) Sender b) Channel c) Receiver d) Medium

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#### M.Phil. Mathematics

- Q1. The derivative of sin(x) is:
- a) cos(x) b) -cos(x) c) sin(x) d) -sin(x)
- Q2. A matrix is said to be singular if:
- a) Its determinant is zero
- b) It has no inverse
- c) Both a and b
- d) None of the above
- Q3. The set of natural numbers is:
- a)  $\{0, 1, 2, 3...\}$  b)  $\{1, 2, 3...\}$  c)  $\{-1, 0, 1...\}$  d) All integers

#### M.Phil. Physics

- Q1. Newton's second law relates:
- a) Energy and time
- b) Mass and volume
- c) Force and acceleration
- d) Speed and distance
- Q2. The unit of electric current is:
- a) Volt b) Ohm c) Ampere d) Watt
- Q3. Which of the following is a scalar quantity?
- a) Force b) Velocity c) Acceleration d) Temperature

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#### M.Phil. Zoology

O1	Blood	in	vertebrates	is	mainly	composed	of:
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a) Plasma and RBCs

b) Cytoplasm and lymph

c) Water and glucose

d) WBCs and hormones

Q2. DNA replication occurs in:

a) G1 phase b) S phase c) G2 phase d) M phase

Q3. The study of insects is called:

a) Herpetology b) Entomology c) Mammalogy d) Ichthyology

#### M.Phil. Food Science & Technology

Q1. Pasteurization is used to:

a) Freeze food

b) Sterilize utensils

c) Kill harmful microbes

d) Improve taste

Q2. HACCP stands for:

a) Hazard Analysis and Critical Control Points

b) Health and Clean Cooking Program

c) Human Approved Cooking Certification

d) None of the above

Q3. Which vitamin is lost during milling of grains?

a) Vitamin A b) Vitamin B1 (Thiamine) c) Vitamin C d) Vitamin D