

**International Islamic University Islamabad**  
**Faculty of Engineering & Technology**  
**Department of Mechanical Engineering**

## GRE Type Test Format for Ph.D Admission in Mechanical Engineering

### *General Distribution*

<b>A. Major Subjects (Core Area)</b>	<b>70%</b>
<b>B. English (Verbal)</b>	<b>15%</b>
<b>C. Analytical Reasoning</b>	<b>15%</b>

### *Questions Distribution*

<b>Sr.</b>	<b>A. Core Areas Of Mechanical Engineering</b>	<b>No. of Question</b>
1.	Engineering Drawing and Graphics	02
2.	Thermodynamics	03
3.	Manufacturing Engineering	02
4.	Internal Combustion Engines	03
5.	Solid Mechanics- I & II	05
6.	Production Engineering	03
7.	Fluid Mechanics and Hydraulics	05
8.	Machine Design & CAD- I	03
9.	Engineering Materials	03
10.	Dynamics	02
11.	Statics	02
12.	Power Plants	05
13.	Machine Design & CAD-II	03
14.	Mechanical Vibrations	02

15.	Stress Analysis	03
16.	Energy Technology	03
17.	Refrigeration & Air Conditioning	03
18.	Gas Dynamics	02
19.	Heat Transfer	03
20.	Industrial Engineering & Management	02
21.	CAD/CAM	03
22.	Theory of Machines	03
23.	Mechatronics/ Instrumentation and Control	03
24.	Environmental Engineering	02
<b>Total</b>		<b>70</b>

Sr.	B.	No. of Question
25	English (Verbal)	15

Sr.	C.	No. of Question
26	Analytical Reasoning	15

<b>Total No. Of Questions</b>	<b>100</b>
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*\*The above test is at the same pattern as GAT Subject Test for PhD admission taken by National Testing Service.*

Note: In addition to above test "Successful candidates are required to submit GAT-Subject scores (minimum 60% cumulative) before or latest by the end of first semester of PhD program"