

**EXAM, ANSWER KEY/RUBRIC, AND SCORING SCALE**  
**Semester 2, Academic Year 2024 – 2025**

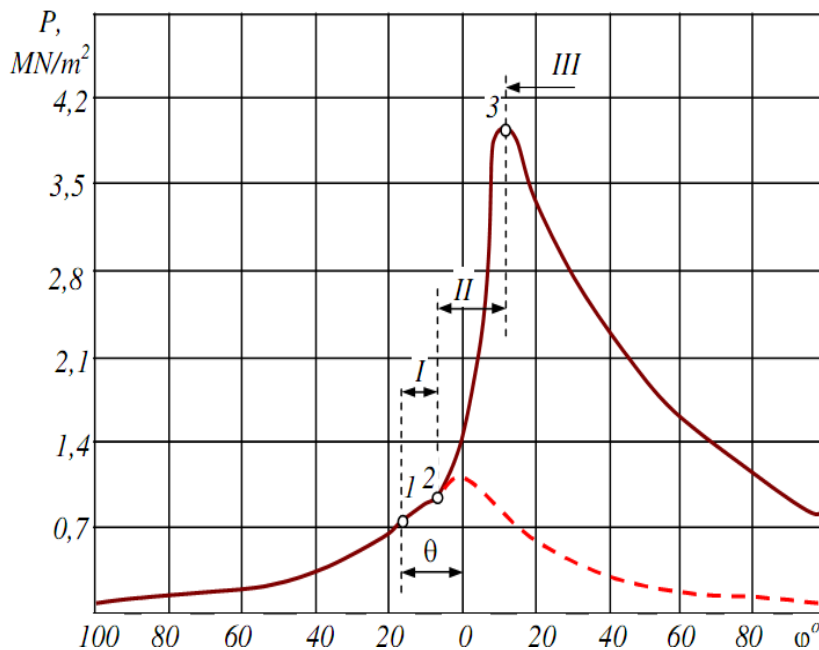
**I. General Information:**

<b>Course Title:</b>	The working principle of the internal combustion engine		
<b>Course Code:</b>	72ABTE40202	<b>Credits:</b>	2
<b>Group Codes:</b>	242_72ABTE40202_02		
<b>Exam Format:</b> Essay	<b>Duration:</b>	<b>60</b>	minute
<i>Students are allowed to refer to materials</i>	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	

**III. Content of Exam Questions**

**Question 1: (6,0 punkts)**

Analyze the combustion process of a forced ignition engine showed on the bellow figure:



**Question 2: (4,0 points)**

Analyze the factors that increase engine power, to understand the effect of engine turbocharging

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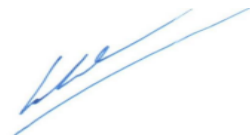
**ANSWER KEY AND SCORING SCALE**

Questions	Answer Content	Scoring Scale	Notes
<b>I. Essay</b>			
<b>Question 1</b>		<b>6.0</b>	
content a.	Explain the Point 1	1.0	
content b.	Explain the Point 2	1.0	
content c	Explain the Point 3	1,0	
content d	Explain the Period I	1,0	
content e	Explain the Period II	1,0	
content f	Explain the Period III	1,0	
<b>Question 2</b>		<b>4.0</b>	
content a	Reduce the number of strokes (t)	0.8	
content b	Increase engine speed (n)	0.8	
content c	Increase the number of engine cylinders (i)	0.8	
content d	Increase the working volume of the engine (V <sub>h</sub> )	0.8	
content e	Increase the pressure of air intake for the engine	0.8	
	<b>Điểm tổng</b>	<b>10.0</b>	

*February 25, 2025*

**Test Compiler**

**(Signature and Full Name)**



**PGS.TS Lê Hữu Sơn**

*February 25, 2025*

**KT. Head of Department/Faculty**

**(Signature and Full Name)**



**MS. Đoàn Thanh Sơn**