

B.Tech Final Year (Mechanical Engineering) Credit Examination 2020

INTERNAL COMBUSTION ENGINES

Set I

Time: One Hour

Total Marks: 50

Instructions: 1) Attempt any twenty five questions.

2) Each question carries two marks.

Q.No.		
1	The efficiency of an Otto cycle is increased by increasing a) pressure ratio b) compression ratio c) temperature ratio d) none of the mentioned	
2	In Dual cycle, heat addition takes place a) at Constant volume b) first at constant volume then at constant pressure c) constant pressure d) none of the mentioned	
3	Hunting occurs due to which of the following? a) Faulty governor b) Poor control by the governor c) Over control by the governor d) Bad engine design	
4	Automobile gears are generally made of	

	<ul style="list-style-type: none">a) cast ironb) stainless steelc) alloy steeld) mild steel	
5	<p>If petrol is used in a diesel engine, then</p> <ul style="list-style-type: none">a) low power will be producedb) efficiency will be lowc) higher knocking will occurd) black smoke will be produced	
6	<p>Which of the following does not relate to compression ignition engine?</p> <ul style="list-style-type: none">a) Fuel pumpb) Fuel injectorc) Governord) Carburetor	
7	<p>Octane number is determined by comparing the performance of the petrol with the following hydro-carbons</p> <ul style="list-style-type: none">a) iso-octaneb) mixture of normal heptane and iso octanec) alpha methyl naphthalened) none of the mentioned	
8	<p>Volatility of diesel fuel is</p> <ul style="list-style-type: none">a) maximum temperature to which oil is heated in order to give off inflammable vapour in sufficient quantity to ignite momentarily when brought in contact with a flameb) it catches fire without external aidc) indicated by 90% distillation temperatured) none of the mentioned	

9	<p>Hydrocarbons are decomposed into smaller hydrocarbons by</p> <ul style="list-style-type: none">a) reformingb) refiningc) crackingd) polymerization	
10	<p>The effects of knocking are</p> <ul style="list-style-type: none">a) increase in heat transferb) decrease in power output and efficiencyc) preignitiond) all of the mentioned	

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Answer Key Set I

Time: One Hour

Total Marks: 50

Q.No.	Answer:	
1	Answer: b	
2	Answer: b	
3	Answer: b	
4	Answer: c	
5	Answer: c	
6	Answer: d	
7	Answer: b	
8	Answer: c	
9	Answer: c	
10	Answer: a	