24407

B. Tech. 5th Semester (F) Scheme (AUE) Examination, December-2018

AUTOMOTIVE DIESEL ENGINES

Paper-AUE-303-F

Time allowed: 3 hours] [Maximum marks: 100

Note: Attempt five questions by selecting at least one question from each section. Question No. 1 is compulsory.

- 1. (a) Cetane number
 - (b) Injection lag
 - (c) Factors affecting delay period
 - (d) Variables affecting engine performance. 5×4=20

Section-A

- With neat sketches discuss the construction and working of four stroke diesel engine.
- 3. Discuss about:
 - a) Diesel fuel properties 10
 - (b) Ignition Quality 10

Section-B

 Discuss about construction and working details of distributor type pump with neat sketch.

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5.	Write about :		
	(a)	Pneumatic governor used in fuel injection sys	stem.
	` ,		10
	(b)	Any two types of injection nozzles.	10
		Section-C	
6.	Write about:		
	.(a)	Knock in C.I. engine.	10
	(b)	Stages of Combustion in C.I. engine.	10
7.	Explain different types of combustion chamber with near		
	sketches.		10
		Section-D	
8.	Discuss in detail about types of super charging with a sketches.		nea 20
9.	Write about:		
	(a)	Methods to improve engine performance.	10
	(b)	Diesel engine testing and performance	10