Model Question Paper -1 with effect from 2020-21(CBCS Scheme)

USN					

Fifth Semester B.E. Degree Examination

Marine Internal Combustion Engine 1

TIME: 03 Hours Max. Marks: 100

Note: 01. Answer any **FIVE** full questions, choosing at least **ONE** question from each **MODULE**.

02. Draw the diagram neatly and label it.

03.

		Module – 1	
	(a)	Explain the valve timing diagram of 4 stroke engine with neat sketch?	10
Q.1	(b)	Define the following 1. Indicated power 2. Brake power 3. Mechanical efficiency 4. Mean effective pressure 5. Mean piston speed	10
	(c)		
		OR	
	(a)	Explain the nomenclature of engine 6KMC90 E ?	10
Q.2	(b)	Differentiate between 2 stroke engine and 4 stroke engine?	10
	(c)		
		Module – 2	
	(a)	Draw a neat sketch of trunk piston?	10
	(b)	Define white metal bearing; explain with a neat sketch the structure of bearing?	10
Q.3	(c)		
		OR	
	(a)	Define serration, how connecting rod is different in 2 stoke and 4 stroke?	10
Q.4	(b)	Give a justification, why A frame is made as structure for 2 stroke engines and why not in 4 stroke engines?	10
	(c)		
		Module – 3	
Q.5	(a)	Explain the different types of scavenging process?	10

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	(b)	Describe the defective/ faulty encountered in turbo charger?	10		
	(b) (c)				
	(0)	OP			
	(a)	OR Explain myles type sharper state its adventage and disadventage?	10		
	(a)				
Q.6	(b)	Draw a neat sketch of axial flow turbocharger?	10		
	(c)				
		Module – 4			
	(a)	Explain the cause and prevention and action of scavenge fire?	10		
	(b)	Draw a neat sketch of fuel infector and label the parts?	10		
Q.7	(c)				
		OR			
	(a)	Sketch and explain the crankcase relief door?	10		
Q.8	(b)	In ship, the fuel stored in bunker tank started fouling, what action and preparation you are going to take after seeing this incident?	10		
	(c)				
		Module – 5			
	(a)	Explain the different types of lubrications?	10		
Q.9	(b)	The ship has taken lubricants 500T from Singapore, they started the voyage and reached Dubai, the report from lab has come, describe the contents in lab report?			
	(c)				
		OR			
	(a)	Explain the properties of lubricants	10		
	(b)	Sketch the lubrication line diagram of auxiliary engine?	10		
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Q.10	(c)				

Tal	ble sh	owing the Bloom's Tax	onomy Lo		ome and Programme		
Question		Bloom's Taxonomy L	evel Course Outcome		Programme Outcome		
Q.1	(a)	L2		CO1	PO1		
	(b)	L1		CO1	PO1		
	(c)						
Q.2	(a)	L2		CO1	PO1		
	(b)	L2		CO1	PO1		
	(c)						
Q.3	(a)	L3		CO2	PO2		
	(b)	L3		CO2	PO2		
	(c)						
Q.4	(a)	L1		CO2	PO2		
	(b)	L4		CO2	PO2		
	(c)						
Q.5	(a)	L3		CO3	PO3		
	(b)	L4		CO3	PO3		
	(c)						
Q.6	(a)	L2		CO3	PO3		
	(b)	L2		CO3	PO3		
	(c)						
Q.7	(a)	L2		CO4	PO4		
	(b)	L3		CO4	PO4		
	(c)						
Q.8	(a)	L2		CO4	PO4		
	(b)	L4		CO4	PO4		
	(c)						
Q.9	(a)	L2		CO5	PO5		
	(b)	L4		CO5	PO5		
0.40	(c)	1.0		COT	DO.		
Q.10	(a)	L2		CO5	PO5		
	(b)	L4		CO5	PO5		
	(c)						
			Lower	order thinking skills	;		
Bloom's Taxonomy Levels		Remembering(Understa	nding	Applying (Application):		
		knowledge):L ₁		chension): L_2 L_3 rorder thinking skills			
		Analyzina (Azalzsia). I					
		Analyzing (Analysis): L ₄	vaiuating	g (Evaluation): L ₅	Creating (Synthesis): L_6		

