University of Mumbai
Online Examination 2020

Program: BE Automobile Engineering

Curriculum Scheme: Revised 2016

Examination: BE SEM VII R-2016

Course Code:AEDLO7032

Course Name: AUTOMOTIVE EMBEDED SYSTEM

Time: 1hour   Max. Marks: 50

Note to the students:- All the Questions are compulsory and carry equal marks .

QUESTION NO.	QUESTIONS
QNO.1	Which of the following is a volatile memory ?
A	RAM
B	ROM
C	Secondary memory
D	Hard Disk Drive
QNO.2	The _____ is the heart of embedded system.
A	input-output devices
B	Processor
C	Memory
D	ALU
QNO.3	Which of the following is an example hard real time system?
A	Digital Camera
B	Air bag control system
C	ATM
D	MP3

QNO.4	What does I2C stand for?					
A	Inter Integrated Circuit					
B	Intra Integrated Circuit					
C	Intel Integrated Circuit					
D	Individual Integrated Circuit					
QNO.5	What is the full form of ISA?					
A	Independent System Architecture					
B	Industry Standard Architecture					
C	International Status Accumulator					
D	Internal System Architecture					
QNO.6	Which of the following position is not there in the lighting system switch?					
A	neutral position					
B	off position					
C	on position					
D	up and down position					
QNO.7	In CAN logic "1" is					
A	dominant bit					
B	recessive bit					
C	port bit					
D	gate bit					
QNO.8	A demultiplexer is also known as					
A	data selector					
B	data distributor					
C	data divider					
D	data manipulator					

QNO.9	In time division Multiplexing, demultiplexer is used at the ------- end					
A	transmitter					
B	receiver					
C	inbetween					
D	terminator					
QNO.10	LIN supports data rate of------					
A	20kbit/s					
B	100kbit/s					
C	40kbit/s					
D	120kbit/s					
QNO.11	A steer by wire system aims to eliminate the physical connection between the steering wheel and the wheels of a car by using electrically controlled------- to change the direction of the wheels					
A	stater					
B	transformers					
C	altenator					
D	motors					
QNO.12	Which of the sensor is used in brake by wire system?					
A	wheel speed sensor					
B	oxygen sensor					
C	temperature sensor					
D	temperature sensor					
QNO.13	The considerations involved in the selection of the type of electric drive for a particular application depends upon					
A	Speed control range					
B	type of gears					

C	type of motor					
D	type of drive					
QNO.14	The main driving components that drive by wire systems typically replaces					
A	power system					
B	motor					
C	battery					
D	steering mechanism					
QNO.15	Which of the following is the component of Electronic throttle valve?					
A	brake pedal					
B	clutch pedal					
C	powertrain or ECM					
D	brake pads					
QNO.16	Brake by wire is also common in the form of					
A	electric park brake					
B	hydraulic park brake					
C	pneumatic park brake					
D	mechanical park brake					
QNO.17	In MC9S12XD family, which mode allows 16-bit external memory and peripheral devices to be interfaced to the system. ?					
A	Normal Expanded Mode					
B	Normal Single-Chip Mode					
C	Low Power Mode					
D	Freeze mode					

QNO.18	In MC9S12XD family,which mode is entered when the CPU executes the WAI instruction?					
A	Pseudo Stop Mode					
B	Full Stop Mode					
C	Freeze mode					
D	System Wait Mode					
QNO.19	In which mode SPI device communicates ?					
A	Simplex mode					
B	Half simplex mode					
C	Full Duplex mode					
D	Half Duplex mode					
QNO.20	SCI module has _____ external pins.					
A	1					
B	2					
C	3					
D	4					
QNO.21	How many I2C module,MC9S12XD family has?					
A	upto 2 module					
B	upto 3 module					
C	upto 4 module					
D	1 module					
QNO.22	What does PWM stand for?					
A	Program Wide Machine					
B	Parallel Wide Modulator					
C	Power Width Machine					
D	Pulse Width Modulator					

QNO.23	IDE Tool-Debugger is used to _____						
A	resolve errors						
B	convert source code into executable file						
C	find and replace text						
D	create and modify source code						
QNO.24	_____ is used to generate final executable file from object code.						
A	Search Engine						
B	Linker						
C	Project Manager						
D	Complier						
QNO.25	The lighting system of a motor vehicle consist of lighting and ------						
A	signalling devices						
B	heating devices						
C	cooling devices						
D	Conditioning devices						