

These are sample MCQs to indicate pattern, may or may not appear in examination

University of Mumbai Online Examination 2020

Program: BE Automobile Engineering

Curriculum Scheme: Rev2012

Examination: Final Year Semester VII

Course Code: AEE 7015 and Course Name: Automotive Embedded Systems

Time: 1hour

Max. Marks: 50

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

Q1.	What is the full form of ESP?
Option A:	Electro Static Protection
Option B:	Electrical System Process
Option C:	Electronic Stability Program
Option D:	Electrical Service Provider
Q2.	The power train includes engine, transmission, _____
Option A:	steering gear
Option B:	drive shafts and differentials
Option C:	chassis
Option D:	front axles
Q3.	In CAN bus, _____ frame carries data from a transmitter to the receiver.
Option A:	remote
Option B:	data
Option C:	overload
Option D:	error
Q4.	Extended CAN frame has _____ bit identifier.
Option A:	11
Option B:	29
Option C:	7
Option D:	8
Q5.	In CAN logic "0" is _____
Option A:	port bit
Option B:	dominant bit
Option C:	gate bit
Option D:	recessive bit
Q6.	CAN serial bus uses _____
Option A:	two wires

Option B:	three wires
Option C:	four wires
Option D:	one wires
Q7.	How many segments are there in Flex ray frames?
Option A:	3
Option B:	4
Option C:	5
Option D:	2
Q8.	In Flex ray frame, Trailer segment consists of _____ bits.
Option A:	5
Option B:	24
Option C:	40
Option D:	10
Q9.	X by wire is technology where electronic system replaces _____
Option A:	transmission system components
Option B:	electrical system
Option C:	hydraulic components
Option D:	battery
Q10.	The considerations involved in the selection of the type of electric drive for load variation depend upon _____
Option A:	speed control range
Option B:	continuous variable load
Option C:	type of motor
Option D:	type of drive
Q11.	Which of the following motor is preferred for automatic drives?
Option A:	Ward Leonard controlled DC motors
Option B:	Squirrel cage induction motor
Option C:	Shunt motor
Option D:	Synchronous motor
Q12.	Brake by wire is also common in the form of _____
Option A:	electric park brake
Option B:	hydraulic park brake
Option C:	pneumatic park brake
Option D:	mechanical park brake
Q13.	_____ is a type of throttle position sensor.
Option A:	Hall Effect
Option B:	resistive
Option C:	capacitive
Option D:	transistor

Q14.	In _____ of MC9S12XD family, the oscillator is stopped, all clocks are switched off, all counters and dividers remain frozen.
Option A:	Full Stop Mode
Option B:	System Wait Mode
Option C:	Pseudo Stop Mode
Option D:	Normal Single-Chip Mode
Q15.	SPI device communicates in _____
Option A:	simplex mode
Option B:	half simplex mode
Option C:	full duplex mode
Option D:	half duplex mode
Q16.	MC9S12XD family has _____ SCI modules.
Option A:	up to 6
Option B:	up to 3
Option C:	up to 4
Option D:	up to 5
Q17.	Which pin of SCI is used to transmit data?
Option A:	TXD
Option B:	RXD
Option C:	SDL
Option D:	SCLK
Q18.	What does PWM stand for?
Option A:	Program Wide Machine
Option B:	Parallel Wide Modulator
Option C:	Power Width Machine
Option D:	Pulse Width Modulator
Q19.	Which pin is the synchronous output clock in SPI (master mode)?
Option A:	Serial Clock pin
Option B:	Slave Select pin
Option C:	MISO pin
Option D:	MOSI pin
Q20.	In MC9S12XD family, the I2C module are _____
Option A:	up to 2 modules
Option B:	up to 3 modules
Option C:	up to 4 modules
Option D:	up to 5 modules
Q21.	What is the use Search Engine tool?
Option A:	resolve errors
Option B:	convert source code into an executable file

Option C:	find a specific text string
Option D:	create and modify source code
Q22.	Build System tool is used to _____
Option A:	convert source code into an executable file
Option B:	resolve errors
Option C:	find a specific text string
Option D:	create and modify source code
Q23.	What is used to generate final executable file from object code?
Option A:	Project Manager
Option B:	Linker
Option C:	Compiler
Option D:	Build System
Q24.	Parking lamps are also known as _____
Option A:	fog lamps
Option B:	rear position lamps
Option C:	front position lamps
Option D:	side lamps
Q25.	A small electric motor is attached to a _____ and several other spur gears to create large gear reduction for enough torque to lift window.
Option A:	spur
Option B:	worm
Option C:	helical
Option D:	bevel