

Certification Test

CT.Junma.01.eLM.Overview.CertificationTest



Student Name: _____

Company Name: _____

Address: _____

Phone: _____

Email: _____

Test Date: _____

Answers:

1	_____	_____	_____	_____
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Taking the Test

- The purpose of this test is to validate the learning experience corresponding to the applicable eLearning Module. It is recommended to preview the questions before viewing the module, and answer them as the module progresses.
- The test is open book. You may use any website, manuals, software, demo, etc. The test must be taken individually; you may not contact another person for help.
- Each question has only one correct answer unless otherwise noted. Please clearly record all answers on the answer sheet. All questions are equally weighted. A passing score is 90%.

Returning the Test

- Please return **only the first page** of the test (the answer sheet) with completed answers and contact information.

Option 1: Fax the answer sheet to **Yaskawa Technical Training Services** at **(847) 887-7185**.

Option 2: e-mail the answer sheet with all answers and contact information to training@yaskawa.com. An edited pdf of the answer sheet is also acceptable.

Receiving Your Score

You may review your answers only if a passing score is received. You will receive a system-generated email with your score. Please allow up to 5 business days.

1. What type of command input is supported by Junma?
 - A. Analog
 - B. Pulse
 - C. Network
 - D. Cannot be determined using given information

2. What type of applications is Junma designed for?
 - A. Point-to-point
 - B. 400V
 - C. Absolute Encoder
 - D. Contouring

3. How is servo control loop tuning accomplished in a Junma system?
 - A. By setting the PULSE switch
 - B. By using the sine wave encoder
 - C. No tuning is required

4. Which software is required to configure the Junma amplifier for most applications?
 - A. JunmaWin
 - B. SigmaWin
 - C. SigmaJunmaWin
 - D. No Software is required

5. What option is available for Junma motors?
 - A. Voltage
 - B. Keyway
 - C. Encoder
 - D. Shaft Seal
 - E. Command Reference
 - F. Brake

6. What is the max speed of a Junma motor (200V operation)?
 - A. 2000 rpm
 - B. 3000 rpm
 - C. 4500 rpm
 - D. 5000 rpm
 - E. 6000 rpm

7. What is the resolution of the encoder on a Junma motor?
 - A. 1000
 - B. 2500
 - C. 5000
 - D. 8192
 - E. 10000
 - F. 65536
 - G. 1048576

8. What input power voltages (to L1 and L2) are supported by Junma?
 - A. 24V DC
 - B. 100V AC
 - C. 200V AC
 - D. 400V AC
 - E. All of the above
 - F. A and B only
 - G. B and C only
 - H. B, C and D only

9. How is the controller command resolution and pulse type configured in the Junma amplifier?
 - A. CMD switch
 - B. PULSE switch
 - C. RES switch
 - D. FIL switch
 - E. REF switch
 - F. AL switch

10. What algorithm controls the servo loops of Junma?
 - A. Tuning-less
 - B. PID
 - C. Advanced Auto Tuning

11. What is the function of the /COIN output?
 - A. Confirms the motor has stopped
 - B. Confirms the motor is at target speed
 - C. Confirms the motor has homed
 - D. Confirms the motor is at commanded position
 - E. Confirms that Junma is low cost

12. What happens to the REF led when the servo is enabled?
 - A. REF lights
 - B. REF changes color
 - C. REF flashes
 - D. REF goes off
 - E. No change

13. What connects to the + and – terminals?
 - A. Regenerative Resistor
 - B. Regenerative Unit RD08E-E
 - C. 24V DC I/O Power Supply
 - D. 100V/ 200V Line Power
 - E. SJME servo motor

14. What software is used to size a Junma system?
 - A. SigmaJunmaWin
 - B. JunmaWin
 - C. SigmaJunmaSize
 - D. JunmaSize
 - E. SigmaSize
 - F. SigmaWin
 - G. JunmaSize Pro
 - H. JunmaSize Express

Questions Section

15. What can be done if the application regenerative energy exceeds the capacity of the RG08E-E regeneration unit?
- A. Connect additional external regeneration resistors to the amplifier
 - B. Connect additional external regeneration resistors to the regeneration unit
 - C. Share the DC bus with other Junma amplifiers
16. To what device are over-travel limit sensors P-OT (Positive Over-Travel) and N-OT (Negative Over-Travel) to be connected on a Junma system?
- A. To the amplifier CN1
 - B. To the controller
 - C. To the amplifier CN2
 - D. To the motor
17. Junma motors may be used with which other Yaskawa servo amplifiers?
- A. Sigma-1
 - B. Sigma-2
 - C. Sigma-3
 - D. Sigma-5
 - E. None of the above
18. What feedback feature is supported by Junma?
- A. Encoder feedback to controller
 - B. /COIN (in-position) signal
 - C. Absolute Encoder
19. The following items are required to set additional Junma configuration parameters. Which item is free of charge?
- A. Communication Unit
 - B. JunmaWin
 - C. Serial Communication Cable
 - D. USB-Serial Converter
20. Which of the following features does NOT require JunmaWin or the Digital Operator?
- A. Monitor speed, torque, and position error
 - B. Set a custom command pulse resolution
 - C. Use Tuning-less to ensure smooth motion
 - D. Set an amplifier torque limit
 - E. Jog the motor without a controller connected
 - F. View alarm history