IT Skill Test GIC Myanmar

Duration: 30 Minutes   Total Questions: 8

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1. You are developing a web application that needs to validate user input for a registration form. The requirement is to check if the user's age is between 18 and 65 (inclusive). Which of the following code snippets correctly implements this logic?

   A.if (age > 18 && age < 65)

   B.if (age >= 18 && age <= 65)

   C.if (age > 17 && age < 66)

   D.if (age >= 18 || age <= 65)

2. You are developing a grading system for a school. The system should assign a letter grade based on a numerical score. The grading scale is as follows: A (90-100), B (80-89), C (70-79), D (60-69), F (below 60). Which of the following code snippets correctly implements this grading logic?

   A.if (score >= 90) grade = 'A'; else if (score >= 80) grade = 'B'; else if (score >= 70) grade = 'C'; else if (score >= 60) grade = 'D'; else grade = 'F';

   B.if (score > 90) grade = 'A'; else if (score > 80) grade = 'B'; else if (score > 70) grade = 'C'; else if (score > 60) grade = 'D'; else grade = 'F';

   C.if (score >= 90 && score <= 100) grade = 'A'; else if (score >= 80 && score < 90) grade = 'B'; else if (score >= 70 && score < 80) grade = 'C'; else if (score >= 60 && score < 70) grade = 'D'; else grade = 'F';

   D.switch(score/10) { case 10: case 9: grade = 'A'; break; case 8: grade = 'B'; break; case 7: grade = 'C'; break; case 6: grade = 'D'; break; default: grade = 'F'; }

3. You are working on a user authentication system. The system should allow access if the user is either an admin or a registered user with an active account. Given the boolean variables isAdmin, isRegistered, and isActive, which of the following conditions correctly implements this logic?

   A.if (isAdmin || isRegistered && isActive)

   B.if (isAdmin && (isRegistered || isActive))

   C.if ((isAdmin || isRegistered) && isActive)

   D.if (isAdmin || (isRegistered && isActive))

4. In a Java application, you need to implement a method that determines if a given integer is within a specific range, exclusive of the endpoints. The range is from 0 to 100. Which of the following implementations is correct?

   A.if (number > 0 && number < 100)

   B.if (number >= 0 && number <= 100)

   C.if (number > 0 || number < 100)

   D.if (!(number <= 0 || number >= 100))

5. You are developing a weather application that provides different recommendations based on temperature and precipitation. If the temperature is below 0°C and it's snowing, the app should recommend wearing a heavy coat. Which of the following correctly implements this logic, assuming temperature is in Celsius and isSnowing is a boolean?

   A.if (temperature < 0 || isSnowing)

   B.if (temperature <= 0 && isSnowing)

   C.if (temperature < 0 && isSnowing)

   D.if (isSnowing && temperature < 0)

6. In a Java application, you need to implement a method that checks if a given string is a valid password. The password policy states that a valid password must be at least 8 characters long and contain at least one uppercase letter, one lowercase letter, and one digit. Which of the following regular expressions correctly implements this logic?

A.^(?=.*[a-z])(?=.*[A-Z])(?=.*¥d).{8,}$

B.^(?=.*[a-z])(?=.*[A-Z])(?=.*¥d){8,}$

C.^[a-zA-Z¥d]{8,}$

D.^(?=.*[a-z])(?=.*[A-Z])(?=.*¥d)(?=.{8,}).*$

7. You are developing a method to validate email addresses in a Java application. Which of the following regular expressions best matches a basic email format (username@domain.com)?

A.^[¥w-¥.]+@([¥w-]+¥.)+[¥w-]{2,4}$

B.^¥S+@¥S+$

C.^[a-zA-Z0-9]+@[a-zA-Z0-9]+¥.[a-zA-Z]{2,}$

D.^.+@.+¥..+$

8. In a Java application, you need to implement a method that checks if a given year falls within a specific decade. The method should return true if the year is between 2010 and 2019 (inclusive). Which of the following implementations is correct?

A.if (year >= 2010 && year < 2020)

B.if (year / 10 == 201)

C.if (year >= 2010 && year <= 2019)

D.if (year > 2009 && year < 2020)