

## ☑ Easy Level (10 Questions)

**Q1.** Which regular expression matches **any single character except newline**?

- A. \n
  - B. \w
  - C. .
  - D. \s
- 

**Q2.** Which regex symbol matches a **single whitespace character**?

- A. \S
  - B. \w
  - C. \s
  - D. .
- 

**Q3.** Which regex matches a **word character** (letter, digit, underscore)?

- A. \W
  - B. \w
  - C. \s
  - D. .
- 

**Q4.** Which regex matches a **non-whitespace character**?

- A. \s
  - B. \n
  - C. .
  - D. \S
- 

**Q5.** In Object-Oriented Programming, an **object** is best described as:

- A. A blueprint
  - B. A data type
  - C. An instance of a class
  - D. A module
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**Q6.** Which Linux feature supports an Object-Oriented development environment?

- A. Multi-user capability
- B. Process scheduling

- C. Support for OOP languages
  - D. File permissions
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**Q7.** Which keyword is used to define a class in Python?

- A. struct
  - B. define
  - C. class
  - D. object
- 

**Q8.** What does \s represent in regular expressions?

- A. Whitespace
  - B. Non-whitespace
  - C. Newline
  - D. Word boundary
- 

**Q9.** Which OOPS concept binds data and methods together?

- A. Abstraction
  - B. Inheritance
  - C. Encapsulation
  - D. Polymorphism
- 

**Q10.** Which command environment is commonly used to run OOP-based scripts in Linux?

- A. BIOS
  - B. Kernel mode
  - C. Shell
  - D. Bootloader
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## ☐ **Medium Level (15 Questions)**

**Q11.** Which regex will match the word “Linux” exactly?

- A. Linux\*
- B. \w+
- C. Linux
- D. \S+

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**Q12.** What will the regex `\w+` match?

- A. Only alphabets
  - B. Only digits
  - C. One or more word characters
  - D. Only whitespace
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**Q13.** Which regex matches **any visible character except space**?

- A. `.`
  - B. `\s`
  - C. `\S`
  - D. `\w`
- 

**Q14.** In Linux-based OOP applications, which layer interacts directly with hardware?

- A. Shell
  - B. Kernel
  - C. Application layer
  - D. File system
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**Q15.** Which OOPS principle allows objects to take multiple forms?

- A. Encapsulation
  - B. Abstraction
  - C. Polymorphism
  - D. Inheritance
- 

**Q16.** What will the regex `.` NOT match by default?

- A. Letter
  - B. Digit
  - C. Symbol
  - D. Newline
-

**Q17.** Which regex matches exactly **one whitespace**?

- A. \s
  - B. \s+
  - C. \S
  - D. \w
- 

**Q18.** Which OOPS concept reduces complexity by hiding implementation details?

- A. Polymorphism
  - B. Abstraction
  - C. Inheritance
  - D. Compilation
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**Q19.** Which Linux programming feature allows object-oriented scripting?

- A. Kernel threads
  - B. Dynamic linking
  - C. Interpreter support
  - D. Paging
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**Q20.** What does \w represent in regex?

- A. Word character
  - B. Whitespace
  - C. Non-word character
  - D. Newline
- 

**Q21.** Which relationship represents “**is-a**” in OOPS?

- A. Composition
  - B. Aggregation
  - C. Inheritance
  - D. Encapsulation
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**Q22.** Which regex will match a **tab or space**?

- A. .
- B. \w
- C. \s
- D. \S

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**Q23.** Which Linux feature enables reuse of OOP libraries?

- A. File permissions
  - B. Shared libraries
  - C. Virtual memory
  - D. Scheduling
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**Q24.** Which concept ensures data security in OOPS?

- A. Inheritance
  - B. Polymorphism
  - C. Encapsulation
  - D. Overloading
- 

**Q25.** Which regex matches a complete word boundary?

- A. \b
  - B. \w
  - C. .
  - D. \s
- 



## Hard Level (15 Questions)

**Q26.** What will the regex \s+ match?

- A. One or more whitespace characters
  - B. One or more non-whitespace characters
  - C. One whitespace only
  - D. Newline only
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**Q27.** Which regex ensures matching a word but not spaces?

- A. .
  - B. \s
  - C. \w+
  - D. \S\*
-

**Q28.** In Linux OOP environments, which feature supports object persistence?

- A. Process table
  - B. File system
  - C. Scheduler
  - D. Kernel modules
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**Q29.** Which regex matches any character including whitespace but excluding newline?

- A. .
  - B. \s
  - C. \w
  - D. \S
- 

**Q30.** Which OOPS concept allows one class to reuse another class's code?

- A. Abstraction
  - B. Encapsulation
  - C. Polymorphism
  - D. Inheritance
- 

**Q31.** What is the output of applying . regex on string "A B"?

- A. Only A
  - B. A and B
  - C. A, space, B
  - D. Only space
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**Q32.** Which regex differentiates words from symbols?

- A. \w
  - B. \s
  - C. .
  - D. \n
- 

**Q33.** Which Linux concept best supports object interaction?

- A. Inter-process communication
- B. Boot sequence
- C. Memory paging
- D. Disk scheduling

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**Q34.** Which regex matches **non-word characters**?

- A. `\w`
  - B. `\W`
  - C. `\s`
  - D. `.`
- 

**Q35.** Which OOPS concept supports method overriding?

- A. Encapsulation
  - B. Abstraction
  - C. Inheritance
  - D. Compilation
- 

**Q36.** Which regex matches exactly **one visible non-space character**?

- A. `.`
  - B. `\S`
  - C. `\w`
  - D. `\s`
- 

**Q37.** Which Linux feature enables object-oriented frameworks to run efficiently?

- A. Kernel monolith
  - B. Multi-tasking
  - C. Hardware abstraction
  - D. BIOS
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**Q38.** Which regex matches characters except letters and digits?

- A. `\w`
  - B. `\W`
  - C. `\S`
  - D. `.`
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**Q39.** Which OOPS principle promotes scalability in Linux-based systems?

- A. Inheritance
- B. Encapsulation

- C. Modularity
  - D. Compilation
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**Q40.** Which regex matches a **single whitespace but not tab**?

- A. \s
- B. [ ]
- C. \S
- D. .