

ANNEXURE-VI TO NOTIFICATION NO. 7/2/2022-MPSC (DR) DATED 20-03-2026

1. Which component of compiler acts as an interface between analysis and synthesis phases?
(A) Parser (B) Symbol Table
(C) Code Generator (D) Loader
2. The front-end of a compiler is machine:
(A) Dependent (B) Independent
(C) Executable (D) Linked
3. A compiler generating object code for different machine architecture is:
(A) Native compiler (B) Cross compiler
(C) One-pass compiler (D) Just-in-time compiler
4. Which stage removes redundant instructions?
(A) Parsing (B) Optimization
(C) Linking (D) Loading
5. OMR is best suited for:
(A) Large-scale surveys (B) Typing documents
(C) Coding (D) Evaluation
6. Data validation restricts input based on:
(A) Predefined rules (B) User preference
(C) Hardware (D) Printer
7. Process monitoring checks:
(A) Activities (B) Final impact
(C) Budget only (D) Syntax
8. First step in monitoring is:
(A) Setting indicators (B) Evaluation
(C) Reporting (D) Audit
9. Baseline survey is useful for:
(A) Future comparison (B) Syntax analysis
(C) Programming (D) Printing

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10. Industrial Project Report includes:

- | | |
|---------------------|------------------|
| (A) Objective | (B) Cost |
| (C) Market analysis | (D) All of these |

11. In a pipelined CPU architecture, throughput increases because:

- (A) Instruction latency decreases
- (B) Multiple instructions overlap in execution stages
- (C) Clock frequency doubles
- (D) ALU size increases

12. Which network topology provides highest fault tolerance?

- | | |
|----------|----------|
| (A) Bus | (B) Ring |
| (C) Star | (D) Mesh |

13. Virus spreads by:

- | | |
|------------------------|----------------|
| (A) Attaching to files | (B) Monitoring |
| (C) Compilation | (D) Syntax |

14. In MS Word, mail merge is used for:

- | | |
|-------------------------------|----------------|
| (A) Bulk personalized letters | (B) Monitoring |
| (C) Coding | (D) Syntax |

15. In Excel, the function used to count non-empty cells is:

- | | |
|------------------|--------------|
| (A) COUNT() | (B) COUNTA() |
| (C) COUNTBLANK() | (D) SUM() |

16. DNS primarily translates:

- | | |
|----------------|-------------------------------|
| (A) IP to MAC | (B) Domain name to IP address |
| (C) IP to port | (D) Protocol to IP |

17. Ransomware mainly:

- (A) Slows system
- (B) Encrypts data demanding payment
- (C) Displays ads
- (D) Deletes antivirus

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18. In cluster sampling, the primary sampling unit is:

- | | |
|--------------------------------|-----------------------------------|
| (A) Individual respondent | (B) Predefined homogeneous strata |
| (C) Naturally occurring groups | (D) Random individuals |

19. Cost-benefit analysis compares:

- | | |
|------------------------------|--------------------------------------|
| (A) Syntax vs grammar | (B) Project cost vs expected returns |
| (C) Monitoring vs evaluation | (D) Input vs CPU |

20. Leading indicators are used to:

- | | |
|--------------------------------|--------------------------|
| (A) Predict future performance | (B) Measure past results |
| (C) Delete files | (D) Compile code |

21. Risk monitoring helps to:

- | | |
|--------------------|--------------------------------|
| (A) Avoid planning | (B) Identify potential threats |
| (C) Compile tokens | (D) Increase cost |

22. LL(1) parser reads input from:

- | | |
|--------------------|------------------------------------|
| (A) Right to left | (B) Left to right with 1 lookahead |
| (C) Bottom-up only | (D) Stack only |

23. Dead code elimination is part of:

- | | |
|-------------|------------------|
| (A) Parsing | (B) Optimization |
| (C) Linking | (D) Execution |

24. Back-end primarily deals with:

- | | |
|----------------------|-------------------------|
| (A) Syntax rules | (B) Target machine code |
| (C) Token generation | (D) Grammar definition |

25. Context-free grammar is mainly used in:

- | | |
|-----------------------|---------------------|
| (A) Lexical analysis | (B) Syntax analysis |
| (C) Code optimization | (D) Linking |

26. JIT compiler improves performance by:

- | | |
|------------------------------|---------------------|
| (A) Compiling during runtime | (B) Removing syntax |
| (C) Using batch mode | (D) Increasing RAM |

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27. Self-hosting compiler means:

- (A) Hosted on cloud
- (B) Written in same language it compiles
- (C) Machine dependent
- (D) Interpreter

28. Tokenization occurs in:

- (A) Lexical analysis
- (B) Code generation
- (C) Linking
- (D) Monitoring

29. Parse tree is generated during:

- (A) Syntax phase
- (B) Semantic phase
- (C) Linking
- (D) Execution

30. MICR technology is used in:

- (A) Banking cheque processing
- (B) Data entry forms
- (C) Presentation
- (D) Compiler

31. Batch data entry is suitable for:

- (A) Payroll system
- (B) Online ATM
- (C) Real-time booking
- (D) Live monitoring

32. Double verification system reduces:

- (A) Typing speed
- (B) Entry mistakes
- (C) Storage
- (D) Software bugs

33. Touch typing mainly improves:

- (A) Accuracy & speed
- (B) Syntax
- (C) Compilation
- (D) Monitoring

34. Outcome monitoring measures:

- (A) Short-term results
- (B) Long-term social impact
- (C) Attendance
- (D) Machine code

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35. Impact monitoring evaluates:

- | | |
|--------------------|------------------------------|
| (A) Implementation | (B) Long-term sustainability |
| (C) Data entry | (D) Tokenization |

36. SMART indicators mean:

- (A) Specific, Measurable, Achievable, Relevant, Time-bound
- (B) Simple, Manual, Accurate, Reliable, Timed
- (C) Secure, Monitored, Approved, Recorded, Timed
- (D) None

37. Baseline data is collected to:

- | | |
|----------------------------|-------------------|
| (A) Measure initial status | (B) Remove errors |
| (C) Compile files | (D) Encrypt data |

38. Sample survey differs from census because it studies:

- | | |
|-----------------------|------------------------|
| (A) Entire population | (B) Part of population |
| (C) Only employees | (D) Only customers |

39. Questionnaire method is used in:

- | | |
|----------------------|-----------------------|
| (A) Data compilation | (B) Survey |
| (C) Compiler | (D) Monitoring report |

40. Post-implementation report checks:

- | | |
|--------------------|-------------|
| (A) Sustainability | (B) Syntax |
| (C) Token | (D) Storage |

41. Progress report must include:

- | | |
|--------------------------|--------------------|
| (A) Work done vs planned | (B) Grammar |
| (C) CPU speed | (D) Printer report |

42. ROM is:

- | | |
|----------------------|-------------------------|
| (A) Volatile memory | (B) Non-volatile memory |
| (C) Secondary memory | (D) Temporary memory |

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43. Bit stands for:

- | | |
|------------------|------------------------|
| (A) Binary digit | (B) Basic input tool |
| (C) Binary text | (D) Basic integer type |

44. Router is used to:

- | | |
|----------------------|---------------------|
| (A) Connect networks | (B) Print documents |
| (C) Compile code | (D) Monitor data |

45. In IPv4 addressing, Class B default subnet mask is:

- | | |
|-------------------|---------------------|
| (A) 255.0.0.0 | (B) 255.255.0.0 |
| (C) 255.255.255.0 | (D) 255.255.255.255 |

46. Trojan horse is:

- | | |
|--|---------------|
| (A) Malware disguised as legitimate software | (B) Antivirus |
| (C) Firewall | (D) Compiler |

47. Firewall protects:

- | | |
|--------------------------------------|-------------|
| (A) Network from unauthorized access | (B) Syntax |
| (C) Tokens | (D) Printer |

48. Excel formula begins with:

- | | |
|-------|-------|
| (A) = | (B) # |
| (C) & | (D) % |

49. VLOOKUP function is used to:

- | | |
|-----------------------|-----------------------|
| (A) Search vertically | (B) Calculate average |
| (C) Count data | (D) Format sheet |

50. Which Excel function is used to retrieve corresponding value from a horizontal table?

- | | |
|---------------|-------------|
| (A) VLOOKUP() | (B) MATCH() |
| (C) HLOOKUP() | (D) INDEX() |

51. Conditional formatting is mainly used to:

- | | |
|-----------------------|-----------------------------------|
| (A) Encrypt sheet | (B) Highlight data based on rules |
| (C) Delete duplicates | (D) Merge files |

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52. MAC address is:

- | | |
|---------------------|-------------------------------|
| (A) Logical address | (B) Physical hardware address |
| (C) Web address | (D) IP alias |

53. HTTP operates on which port by default?

- | | |
|--------|---------|
| (A) 21 | (B) 25 |
| (C) 80 | (D) 443 |

54. Spyware is designed to:

- | | |
|----------------------|------------------------------------|
| (A) Speed up network | (B) Monitor user activity secretly |
| (C) Protect system | (D) Compile data |

55. HTTPS differs from HTTP because it uses:

- | | |
|--------------|------------------------|
| (A) FTP | (B) SSL/TLS encryption |
| (C) Compiler | (D) Firewall |

56. Primary data is collected through:

- | | |
|-------------------|------------------------|
| (A) Books | (B) Government reports |
| (C) Field surveys | (D) Internet archive |

57. Reliability of survey means:

- | | |
|-----------|----------------------------|
| (A) Speed | (B) Consistency of results |
| (C) Size | (D) Compilation |

58. Executive summary in a project report should be:

- | | |
|--------------------------------|----------------------------------|
| (A) Detailed technical content | (B) Brief overview of key points |
| (C) Financial table only | (D) Personal opinion |

59. Logical Framework (Logframe) matrix includes:

- | | |
|-----------------------------|-------------------|
| (A) Objectives & Indicators | (B) Code & Syntax |
| (C) Monitoring sheet | (D) RAM details |

60. Monitoring data should be:

- | | |
|-----------------|-------------------------|
| (A) Manipulated | (B) Timely and accurate |
| (C) Delayed | (D) Random |

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61. Participatory monitoring involves:

- | | |
|---------------------|----------------------------------|
| (A) Only management | (B) Stakeholders & beneficiaries |
| (C) Compiler | (D) Hardware |

62. LR parser belongs to:

- | | |
|----------------------|-----------------------|
| (A) Top-down parsing | (B) Bottom-up parsing |
| (C) Lexical phase | (D) Monitoring |

63. Loader is responsible for:

- | | |
|----------------------|---------------------------------|
| (A) Translating code | (B) Loading program into memory |
| (C) Monitoring | (D) Survey |

64. Which phase ensures type compatibility of operands?

- | | |
|--------------|------------------|
| (A) Lexical | (B) Syntax |
| (C) Semantic | (D) Optimization |

65. Single pass compiler is generally:

- | | |
|-------------------------------|-------------|
| (A) Faster but less optimized | (B) Slower |
| (C) More secure | (D) Complex |

66. Bootstrap compiler is mainly used for:

- | |
|--------------------------------------|
| (A) Operating systems |
| (B) Developing new language compiler |
| (C) Networking |
| (D) Monitoring |

67. Error recovery is mainly handled during:

- | | |
|----------------------------|--------------------|
| (A) Lexical & Syntax phase | (B) Execution only |
| (C) Monitoring | (D) Reporting |

68. Real-time entry ensures:

- | | |
|--------------------|------------------------|
| (A) Instant update | (B) Delayed processing |
| (C) Manual audit | (D) File compression |

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69. Automated data capture reduces:

- | | |
|-----------------|-----------------|
| (A) Human error | (B) Storage |
| (C) Monitoring | (D) Compilation |

70. Error rate in data entry is calculated as:

- | | |
|-------------------------------------|---------------------------------------|
| (A) Correct entries / Total entries | (B) Incorrect entries / Total entries |
| (C) Speed \times Time | (D) Storage / Time |

71. CAPTCHA prevents:

- | | |
|---------------------|--------------------|
| (A) Duplicate files | (B) Automated bots |
| (C) Data encryption | (D) Formatting |

72. Internal monitoring is conducted by:

- | | |
|------------------|---------------------|
| (A) Project team | (B) External agency |
| (C) Auditor | (D) Bank |

73. Monitoring ensures:

- | | |
|------------------|---------------|
| (A) Transparency | (B) Confusion |
| (C) Delay | (D) Overhead |

74. Evaluation is generally conducted:

- | | |
|------------------|------------------|
| (A) Continuously | (B) Periodically |
| (C) Randomly | (D) Never |

75. Diagnostic study helps to:

- | | |
|-------------------------|---------------------|
| (A) Identify weaknesses | (B) Evaluate syntax |
| (C) Monitor RAM | (D) Speed typing |

76. Feasibility study checks:

- | | |
|-------------------------------------|-----------------------|
| (A) Technical & financial viability | (B) Grammar |
| (C) Code structure | (D) Monitoring errors |

77. Impact reporting mainly measures:

- | | |
|-----------------------|--------------------|
| (A) Long-term results | (B) Daily activity |
| (C) Syntax | (D) Entry speed |

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78. Documentation ensures:

- | | |
|--------------------|------------|
| (A) Record keeping | (B) Typing |
| (C) Deletion | (D) Coding |

79. Operating system manages:

- | | |
|-----------------------------------|---------------------|
| (A) Hardware & software resources | (B) Data entry only |
| (C) Monitoring | (D) Grammar |

80. Example of system software:

- | | |
|-------------|----------------|
| (A) Windows | (B) MS Word |
| (C) Excel | (D) PowerPoint |

81. Phishing attacks occur via:

- | | |
|-----------------|-------------|
| (A) Fake emails | (B) Barcode |
| (C) OMR | (D) Scanner |

82. Strong password includes:

- (A) Only numbers
- (B) Combination of letters, symbols, numbers
- (C) Name only
- (D) Date of birth

83. Pivot table helps in:

- | | |
|-------------------|----------------|
| (A) Data analysis | (B) Typing |
| (C) Coding | (D) Monitoring |

84. PowerPoint slide master controls:

- | | |
|---------------------------|-------------|
| (A) Overall design format | (B) Syntax |
| (C) Token | (D) Storage |

85. Absolute cell reference in Excel is represented by:

- | | |
|----------|------------|
| (A) A1 | (B) \$A\$1 |
| (C) A\$1 | (D) \$A1 |

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86. Two-step verification enhances:

- | | |
|-----------------|----------------|
| (A) Speed | (B) Security |
| (C) Compilation | (D) Monitoring |

87. Bandwidth refers to:

- | | |
|--------------------|----------------------------|
| (A) Memory size | (B) Data transfer capacity |
| (C) Storage device | (D) CPU speed |

88. Social engineering attacks target:

- | | |
|--------------|----------------------|
| (A) Hardware | (B) Human psychology |
| (C) CPU | (D) Compiler |

89. Backup is important for:

- | | |
|--------------------|-------------------|
| (A) Speed increase | (B) Data recovery |
| (C) Tokenization | (D) Monitoring |

90. Likert scale is used to measure:

- | | |
|------------|----------------------|
| (A) Age | (B) Attitude/opinion |
| (C) Height | (D) Income |

91. Data triangulation improves:

- | | |
|-------------------------|--------------------------|
| (A) Monitoring speed | (B) Validity of findings |
| (C) Compiler efficiency | (D) Storage |

92. Impact assessment is generally conducted:

- | | |
|---|-------------------|
| (A) Before project | (B) Midway |
| (C) After sufficient time of implementation | (D) During coding |

93. Financial monitoring checks:

- | | |
|--------------|------------------------|
| (A) Syntax | (B) Budget utilization |
| (C) Compiler | (D) Email |

94. Compilation error differs from runtime error because it occurs:

- | | |
|----------------------|------------------------------|
| (A) During execution | (B) During translation phase |
| (C) After evaluation | (D) During monitoring |

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95. Intermediate code provides:

- | | |
|------------------------|----------------------|
| (A) Machine dependence | (B) Portability |
| (C) Compilation delay | (D) Direct execution |

96. HTTPS provides:

- | | |
|--------------|----------------|
| (A) Security | (B) Speed only |
| (C) Storage | (D) Monitoring |

97. Cloud computing allows:

- | | |
|-------------------------|---------------------|
| (A) Remote data storage | (B) Syntax checking |
| (C) Data entry | (D) Monitoring |

98. A government industrial subsidy project shows 95% fund utilization but employment generation remains significantly below target. Which type of monitoring would best identify the root cause and why?

- (A) Financial monitoring – because funds were fully used
- (B) Output monitoring – because activity completion is required
- (C) Process monitoring – because implementation steps may be inefficient
- (D) Impact monitoring – because long-term effects must be measured

99. An organization conducts baseline surveys through online forms. Later it is discovered that duplicate and bot-generated responses inflated the dataset. Which combination of preventive techniques would have best mitigated this issue?

- (A) Antivirus + Firewall
- (B) CAPTCHA + Data validation rules
- (C) Batch processing + Pivot table
- (D) Mail merge + Encryption

100. During the development of an Industrial Project Monitoring Software, the compiler generates correct machine code, but the final reports produced by the system consistently miscalculate cumulative financial variance. Assuming there are no runtime crashes, which of the following is the most logically accurate explanation?

- (A) The lexical analyzer failed to generate correct tokens
- (B) There is a logical error in the algorithm despite successful compilation
- (C) The loader failed to load the program into memory
- (D) The syntax analyzer misinterpreted grammar rules

SPECIMEN QUESTION PAPER [Paper-I - General Industries for Progress Assistant]

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