MIZORAM PUBLIC SERVICE COMMISSION

TECHNICAL COMPETITIVE EXAMINATIONS FOR RECRUITMENT TO THE POST OF INFORMATICS OFFICER UNDER INFORMATION & COMMUNICATION TECHNOLOGY DEPARTMENT, GOVERNMENT OF MIZORAM. FEBRUARY, 2021

TECHNICAL PAPER - III

Time Allowed : 2 hours   Full Marks : 200

All questions carry equal marks of 2 each.
Attempt all questions.

1. "A car company authorizing a project to build more fuel-efficient cars in response to gasoline shortages". Which strategic consideration is used for this project?
   - (a) Market demand
   - (b) Business need
   - (c) Environmental Consideration
   - (d) Technological Advance

2. A Project Manager should possess the following competencies:
   - (a) Leadership, Trust Building, Motivation
   - (b) Influencing, Communication, Team Building
   - (c) Knowledge, Performance, Personal
   - (d) Decision Making, Negotiation, Conflict Management

3. Sangeeta is part of a project management office (PMO). Her office is responsible for the centralized and coordinated management of 22 projects. Each project has its own project manager. Which of the following will not typically be a responsibility of her PMO?
   - (a) Coaching, mentoring, training, and oversight
   - (b) Development of a detailed description of each project and the product it produces
   - (c) Managing shared resources across all the projects administered by the PMO
   - (d) Developing and managing project policies

4. Resources in project management refers to –
   - (a) Manpower
   - (b) Machinery
   - (c) Materials
   - (d) All of the above

5. A _____ is a set of activities which are networked in an order and aimed towards achieving the goals of a project.
   - (a) Project
   - (b) Process
   - (c) Project management
   - (d) Project cycle

6. The organization's process and procedures for conducting project work does not include:
   - (a) Guidelines of the project to specify needs of the organization
   - (b) Financial controls procedure
   - (c) Risk control procedures
   - (d) Project closure guidelines

7. The project life cycle consists of:
   - (a) Understanding the scope of the project
   - (b) Objectives of the project
   - (c) Formulation and planning various activities
   - (d) All of the above

8. Following are the phases of Project Management Life Cycle. Arrange them in correct order.

   i) Design

   ii) Marketing

   iii) Analysis and evaluation

   iv) Inspection, testing and delivery

   (a) iii), ii), i), iv)

   (b) i), ii), iii), iv)

   (c) ii), iii), i), iv)

   (d) iv), iii), ii), i)

9. Which of the following statement is false in regards to project team?

   (a) Basic project team composition may be dedicated or part-time

   (b) Project team may vary based on organizational structure

   (c) Matrix organizations use both dedicated and part-time project teams

   (d) Dedicated project teams are common in projectized organizations

10. Which of the following statements is correct:

   (a) Project life cycles and product life cycles are interdependent.

   (b) Project life cycles are independent of product life cycles.

   (c) A product life cycle is the same as a project life cycle.

   (d) The last life cycle for a project is generally the product's retirement.

11. Which of the following Process Groups do not overlap with each other?

   (a) Initiating Process Group & Closing Process Group

   (b) Planning Process Group & Monitoring and Controlling Process Group

   (c) Executing Process Group & Monitoring and Controlling Process Group

   (d) Executing Process Group & Closing Process Group

12. Which of the following is the correct logical sequence of the five process groups?

   (a) Planning, Monitoring and Controlling, Initiating, Executing, Closing

   (b) Planning, Initiating, Executing, Monitoring and Controlling, Closing

   (c) Initiating, Monitoring and Controlling, Planning, Executing, Closing

   (d) Initiating, Planning, Executing, Monitoring and Controlling, Closing

13. A large portion of project's budget is spent on what Process Group?

   (a) Initiating

   (b) Planning

   (c) Executing

   (d) Monitoring and Controlling

14. Successful project management does not include which of the following factors?

   (a) Interchangable staff

   (b) Competent team members

   (c) Responsiveness to clients

   (d) Control mechanisms

15. Applying appropriate updates to organizational process assets is a part of what Process Group?

   (a) Monitoring and Controlling

   (b) Planning

   (c) Executing

   (d) Closing

16. Which of the following would not be considered an Enterprise Environmental Factor during the Develop Project Charter process?

   (a) Scope Statement

   (b) Organizational infrastructure

   (c) Governmental standards

   (d) Marketplace conditions

17. A project manager calls you in as a consultant to provide input on developing the Project Charter. Your contribution to the project could best be termed as:

   (a) Professional Consultant

   (b) Charter Consultant

   (c) Expert Judgment

   (d) Expert Consultancy

18. Technical performance measure, start and finish of schedule activities, number of change requests, number of defects are examples of:

   (a) Work performance data   (b) Key performance indicators

   (c) Performance rating   (d) Activity rating

19. Which of the following statement is false?

   (a) Request for change may affect the Project Charter document

   (b) Request for change may be defect repair or update

   (c) Request for change can be externally or internally initiated

   (d) Request for change may be corrective action or preventive action

20. The project management team has determined that there are some changes to the scope of the project. Who is responsible for reviewing, evaluating, and approving documented changes to the project?

   (a) Change Control Board (CCB)   (b) Change Configuration Board (CCB)

   (c) Scope Control Board (SCB)   (d) Configuration Control Board (CCB)

21. What is the term used for the area that entails processes and activities that define, combine, unify and coordinate the processes and project activities carried out within the various Project Management Process Groups?

   (a) Project Integration Management   (b) Strategic Management

   (c) Operations Management   (d) Project Process Management

22. When Integration is used under Project Management, it includes all of the following activities except for:

   (a) Unification   (b) Consolidation

   (c) Communication   (d) Review

23. The process of defining, preparing and organizing all subsidiary plans along with integrating them into the comprehensive project plan is known as:

   (a) Develop Project Charter   (b) Develop Project Management Plan

   (c) Project Process Groups   (d) Strategic Management

24. What is the logical sequence of the Project Scope Management processes?

   (a) Create WBS, Collect Requirements, Define Scope, Validate Scope, and Control Scope

   (b) Define Scope, Collect Requirements, Create WBS, Validate Scope, and Control Scope

   (c) Plan Scope Management, Collect Requirements, Define Scope, Create WBS, Validate Scope, and Control Scope

   (d) Plan Scope Management, Collect Requirements, Define Scope, Validate Scope, Create WBS, and Control Scope

25. You are the Project Manager for the production of an exotic car. You have completed the Define Scope process for your project. Which of the following may be generated through this process?

   (a) Project scope statement, project charter

   (b) Project scope statement, updates to requirements traceability matrix

   (c) WBS, updates to requirements traceability matrix

   (d) Project scope statement, WBS

26. The Work Breakdown Structure (WBS) is a deliverable-oriented hierarchical decomposition of the work the project team will execute to accomplish the project objectives and create required deliverables. The Create WBS process falls under which knowledge area?

   (a) Project Schedule Management   (b) Project Integration Management

   (c) Project Scope Management   (d) Project Cost Management

27. During a weekly status meeting, Binoy (your team member) suggest adding a component to the project. As an project manager, you maintain that all focus should stay on the current scope and not on any enhancements. Focusing on the current scope is an example of:

(a) Gold-plating　　　　　　　　　　　　　(b) Scope management

(c) Scope verification　　　　　　　　　　(d) Change control

28. What is the main reason for controlling the project scope?

(a) To prevent changes from affecting the project　(b) To enable scope creep

(c) To ensure timely closure of the project　　　　(d) Preventing scope creep

29. Which of the following is not used as an input for the Validate Scope process?

(a) Scope Baseline　　　　　　　　　　　(b) Verified Deliverables

(c) Project Management Plan　　　　　　(d) Work Performance Data

30. The Scope Management Plan is included in which of the following documents?

(a) Project Management Plan　　　　　　(b) The Work Breakdown Structure

(c) The Scope Statement　　　　　　　　(d) Project Specifications

31. The process of determining, documenting and managing stakeholder needs and requirements to meet project objectives is known as:

(a) Plan Scope Management　　　　　　　(b) Collect Requirements

(c) Control Scope　　　　　　　　　　　(d) Validate Scope

32. As you create the Activity List, which technique is recommended for subdividing the project into smaller components called activities?

(a) Deconstruction　　　　　　　　　　　(b) Rolling Wave Planning

(c) Expert Judgment　　　　　　　　　　(d) Decomposition

33. Which of the following statement is false for resource calendar?

(a) It identifies the working days and shifts on which each specific resource is available

(b) It is used for estimating resource utilization

(c) It specify potentially unidentified project resources needed for the project

(d) It specify when and how long identified projects resources will be available

34. If you want to compress a project schedule, what are the two recommended alternatives to consider?

(a) Fast Tracking and Schedule Network Analysis

(b) Crashing and Fast Tracking

(c) Resource Levelling and What-If Scenario Analysis

(d) Crashing and Schedule Network Analysis

35. A Project Manager is preparing a Project Schedule network diagram. During the diagram development, she removes a dependency between two tasks that was defined in an earlier stage. After the network diagram is completed, she updates activity attributes for the two tasks. This is an example of:

(a) Define Activities　　　　　　　　　　(b) Sequence Activities

(c) Develop Schedule　　　　　　　　　(d) Lack of change control

36. A schedule activity may begin 10 days before the predecessor activity finishes. This is an example of:

(a) Finish-to-Start　　　　　　　　　　　(b) Start-to-Finish

(c) Start-to-Start　　　　　　　　　　　(d) Finish-to-Finish

37. Which of the following is not an activity attribute?

(a) Person responsible for the activity　　(b) Location where to perform the activity

(c) Time when to perform the activity　　(d) Leads and Lags

38. Milestones established by the customer must be adhered to by:

    (a) Project manager   (b) Functional managers

    (c) The customer   (d) Both (a) & (b)

39. A project uses rounding of activity cost estimates data to the nearest Rs 100, uses staff hours as the unit of measure for resources, and has a variance threshold of 10 percent deviation from the baseline plan. These approaches are typically documented in the:

    (a) Cost management plan   (b) Scope Statement

    (c) WBS   (d) Project charter

40. The Cost Management Plan is an output of the Plan Cost Management process. This plan is then integrated with other project plans in which of these processes?

    (a) Develop Project Management Plan   (b) Monitor and Control Project Work

    (c) Perform Integrated Change Control   (d) Direct and Manage Project Work

41. Analogous Cost Estimating is which of the following?

    (a) Generally less accurate

    (b) Uses statistical relationship between historical data and other variables

    (c) Bottom-up estimating

    (d) Used when detailed information of project is available

42. Which of these are not inputs to the Determine Budget process?

    (a) Cost baseline, requirements traceability matrix   (b) Scope baseline, agreements

    (c) Basis of estimates, cost estimates   (d) Risk register, resource management plan

43. Which of the following type of contract(s) is most preferable to the contractor doing the project work?

    (a) Cost plus fixed fee   (b) Fixed price

    (c) Fixed price plus incentive free   (d) Both (b) & (c)

44. Determining budget can be best described by which of the following?

    (a) The process of developing the future trends along with the assessment of probabilities, uncertainties, and inflation that could occur during the project

    (b) The process of accumulating costs of individual activities to establish a cost baseline.

    (c) The process of establishing budgets, standards, and a monitoring system by which the investment cost of the project can be measured and managed

    (d) The process of gathering, accumulating, analyzing, reporting, and managing the costs on an on-going basis

45. The Project Cost Management Process comprises the following activities:

    i) Determine Budget   ii) Plan Cost Management

    iii) Estimate Costs   iv) Control Costs

What is the correct sequence?

    (a) i), ii), iii), iv)   (b) iii), i), ii), iv)

    (c) ii), iii), i), iv)   (d) i), iii), ii), iv)

46. A control chart is used to determine whether a process is stable or has predictable performance. When a process is within acceptable limits, the process does not need adjustment. How are these upper and lower control limits determined?

    (a) ROM estimate   (b) Variance analysis

    (c) Pareto chart   (d) Statistical calculations

47. Team Bravo is in the execution stage of their project, and they were informed that "corporate" will send in a team of consultants to review whether their project activities comply with companies and PMI's policies, standards, and procedures. This is an example of:

(a) Quality Audit
(b) Organizational Process Assets
(c) Process Analysis
(d) Recommended Corrective Actions

48. A project manager creates a component-specific tool to verify that a set of required steps has been performed. This tool is called a:

(a) Risk Register
(b) Assumptions log
(c) Checklist
(d) Plan-Do-Act-Check

49. What does a monitoring and evaluation framework include?

(a) Objectives, assumptions, indicators and a summary of activities
(b) Objectives and indicators
(c) Goal and objectives
(d) Goal, objectives and indicators

50. Which tools are useful for a situational analysis prior to planning a project/program?

(a) Stakeholder analysis
(b) SWOT analysis
(c) Problem tree analysis
(d) All of the above

51. Which of the following is not an example of human resource networking activities?

(a) Proactive correspondence
(b) Organization management
(c) Luncheon meetings
(d) Symposia

52. A project involved team members situated in Kolkata, Guwahati, Bangalore, and Aizawl. Which of the following activities becomes crucial in such a team environment?

(a) Team-building
(b) Status reporting
(c) Conflict resolution
(d) Communication planning

53. Ground rules are established to set clear expectations regarding acceptable behavior by the project team members. Whose responsibility is it to enforce ground rules?

(a) The project manager
(b) All project team members
(c) The HR team
(d) The project manager and senior team members

54. _____ and retention of qualified employees is a common goal shared by many employers.

(a) Training
(b) Development
(c) Recruitment
(d) All of the above

55. What is regarded as the preventive tool in case of any differences of opinions among the members of rating committee?

(a) Job rotation
(b) Job specification
(c) Job evaluation
(d) All of the above

56. What is the sequence of steps in a basic communication model?

(a) Encode -> Decode -> Transmit -> Acknowledge -> Feedback
(b) Encode -> Transmit -> Decode -> Acknowledge -> Feedback
(c) Decode -> Encode -> Transmit -> Acknowledge -> Feedback
(d) Encode -> Transmit -> Decode -> Feedback -> Acknowledge

57. Along with the project communications management plan, work performance reports are vital inputs to the Manage Communications process. Where do these work performance reports come from?

    (a) Project integration management process   (b) All monitoring and controlling processes

    (c) Plan Communications Management processes   (d) Organizational process assets

58. Arjun is managing a construction project. The project's client is responsible for the design, while Arjun's organization is responsible for the construction. There has been a delay in the design and this can only be recovered through crashing and will cost 100 lakhs in addition to the approved budget. Arjun prepares a detailed report and emails it to the client. In this scenario, Arjun 's email to the client is an example of:

    (a) Informal unofficial communication   (b) Formal unofficial communication

    (c) Informal official communication   (d) Formal official communication

59. Most of the project manager's external communication comprises:

    (a) Written documents   (b) Oral communication

    (c) Tactile contact   (d) Informal contact

60. The critical element in a project's communication system is the:

    (a) Progress report   (b) Project directive

    (c) Project manager   (d) Customer

61. Which of the following is a hierarchical representation of project risks?

    (a) Risk Register   (b) Risk Mitigation

    (c) Risk Categories   (d) Risk Breakdown Structure

62. Which term best describes the Identify Risks process?

    (a) Finite   (b) Redundant

    (c) Iterative   (d) Inconsequential

63. During the Plan Risk Management process, assigning _____ will help you and the project team identify all important risks and work more effectively during the identification process.

    (a) Risk factors   (b) Blame

    (c) Risk mitigation plans   (d) Risk categories

64. The process under Process Risk Management that prioritizes risks for further analysis or action by assessing and combining their probability of occurrence and impact is called:

    (a) Perform Qualitative Risks Analysis   (b) Perform Quantitative Risk Analysis

    (c) Plan Risk Management   (d) Plan Risk Responses

65. The total amount of risk that is calculated for a project is found by:

    (a) Multiplying the sum of each the risk times the amount at stake

    (b) Calculating the cumulative sum of the probability for each risk and multiplying this value times the consequence of occurrence of the risk events

    (c) Cannot be calculated since all risks are not known

    (d) The amount of project reserves available

66. During the Control Procurements process, a number of documents might get updated due to various reasons. Which of the following components of the project management plan is least likely to get updated during this process?

    (a) Quality management plan   (b) Procurement management plan

    (c) Schedule baseline   (d) Cost baseline

67. Maintaining good supplier relationships should be important to all project managers. A good buyer-seller relationship is a partnership that results in a win-win situation that nurtures both parties. Which of the following is both a short and long-term benefit of treating a supplier with courtesy, honesty, and fairness?

    (a) There is no need to have formal contracts in place

    (b) Delivery of quality products and services at the best price

    (c) The buyer can delay the payments without jeopardizing the relationship

    (d) The supplier can charge a price higher than the market price

68. The Control Procurements process receives a very important input from the Direct and Manage Project Work process. Identify the input from the following:

    (a) Approved change requests   (b) Work performance data

    (c) Procurement documents   (d) Agreements

69. The tools and techniques used in the process of Plan Procurement Management includes all but:

    (a) Make-or-buy analysis   (b) Market Research

    (c) Bidder Conferences   (d) Expert Judgment

70. The type of hybrid contracts which influences the Plan Procurement project is called:

    (a) Time and Material Contracts (T&M)   (b) Cost-reimbursable Contracts

    (c) Fixed Price Contracts   (d) Both (b) & (c)

71. SIPOC stands for:

    (a) Superior service, inferior service, peak hour service, optimized service, and client service

    (b) Simple, intellectual, procedural, optimal coding

    (c) Sample, information, practice, organization, and control

    (d) Suppliers, inputs, process, outputs, and customers

72. Key project stakeholders can significantly influence a project in many ways. During which stage of the project do these stakeholders have the maximum ability to influence a project?

    (a) Planning   (b) Initiating

    (c) Executing   (d) Monitoring & Controlling

73. Which of the following organizational process assets is the least important consideration during the Manage Stakeholder Engagement process?

    (a) Issue management procedures   (b) Project plan templates

    (c) Change control procedures   (d) Historical information about previous projects

74. Which of the following is/are required for identifying stakeholders:

    (a) Stakeholder register   (b) Procurement documents

    (c) Project management plan   (d) All of the above

75. Which of the following is not a stakeholder in a project?

    (a) Supplier   (b) Customer

    (c) PMO   (d) Competitor

76. What should come in the place of question mark (?) in the number series given below?

25, 34, 52, 79, 115,?

    (a) 160   (b) 140

    (c) 153   (d) None of these

77. If the fractions 8/5,7/2,9/5,5/4,4/5 are arranged in descending order of their values, which one will be fourth?

(a) 4/5   (b) 8/5

(c) 9/5   (d) 5/4

78. Look at this series: 5, 1, (1/5), (1/25), ... What number should come next?

(a) (1/13)   (b) (1/125)

(c) (2/265)   (d) (1/100)

79. Look at this series: 9, 10, 11, 11, 13, 12, ... What number should come next?

(a) 9   (b) 15

(c) 12   (d) 16

80. Look at this series: 55, 55, 40, 35, 25, 15, ... What number should come next?

(a) 15   (b) 10

(c) 27   (d) 55

81. Look carefully for the pattern, and then choose which pair of numbers comes next.

28, 25, 5 ,21, 18, 5, 14,

(a) 11, 5   (b) 10, 7

(c) 11, 8   (d) 5. 10

82. Look at this series: 664, 332, 340, 170, _____, 89, ... What number should fill the blank?

(a) 85   (b) 97

(c) 109   (d) 178

83. Look at this series: 70, 71, 76, __, 81, 86, 70, 91, ... What number should fill the blank?

(a) 70   (b) 71

(c) 80   (d) 96

Directions: Questions No. 84 & 85 consist of two words which have a certain relationship to each other followed by four pairs of related words, Select the pair which has the same relationship.

84. DIVA: OPERA

(a) Producer: theatre   (b) Director: drama

(c) Conductor: bus   (d) Thespian: play

85. LIGHT: BLIND

(a) speech: dumb   (b) language: deaf

(c) tongue: sound   (d) voice: vibration

86. In a certain code KINETIC is written as TICDKIN. How is MACHINE written in that code?

(a) ENIGMAC   (b) INEGMAC

(c) INEGCAM   (d) ENIGCAM

87. Which among the option below comes at third place in the English Dictionary?

(a) Monarchy   (b) Monastic

(c) Monetary   (d) Moneyed

88. How many meaningful English words can be made from the letters EAP, using each letter only once in each word?

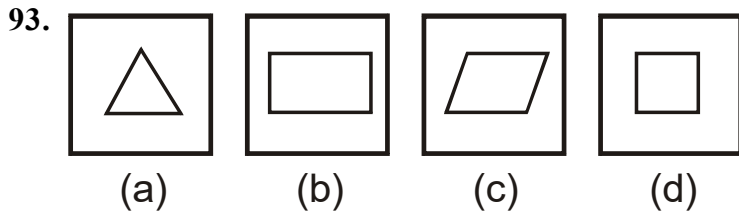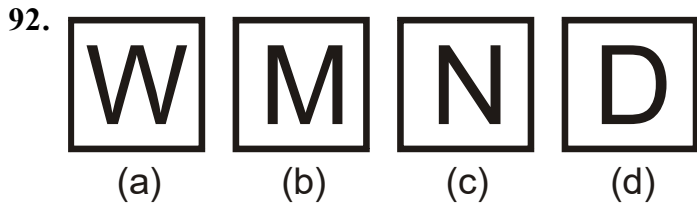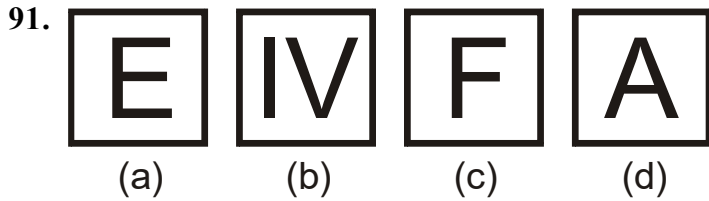(a) None   (b) One

(c) Three   (d) Two

89. Image is to camera just as

    (a) Wine is to bottle   (b) peach is to box

    (c) sound is to tape   (d) light is to candle
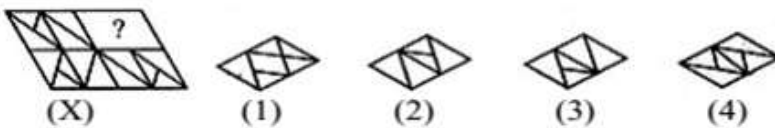
90. Which of the following words is the odd one out?

    (a) Essential   (b) Vital

    (c) Crucial   (d) Trivial
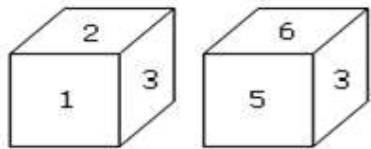
Directions (Q.No. 91 to 93): Select the odd one.

91.

E	IV	F	A
(a)	(b)	(c)	(d)

92.

W	M	N	D
(a)	(b)	(c)	(d)

93.

    (a)   (b)   (c)   (d)

94. Identify the figure that completes the pattern.

    (a) 1   (b) 2

    (c) 3   (d) 4

95. Which digit will appear on the face opposite to the face with number 4?

    (a) 3   (b) 5

    (c) 6   (d) 2

96. What is the exact value of x?

    (1) $4 < 2x < 13$

    (2) $x^2 = 25$

    (a) Statement (1) ALONE is sufficient, but statement (2) alone is not sufficient to answer the question asked

    (b) Statement (2) ALONE is sufficient, but statement (1) alone is not sufficient to answer the question asked

    (c) BOTH statements (1) and (2) TOGETHER are sufficient to answer the question asked, but NEITHER statement ALONE is sufficient

    (d) Statements (1) and (2) TOGETHER are NOT sufficient to answer the question asked, and additional data are needed

97. Lalropuii drives 10 km. towards South, takes a right turn and drives 6 km. She then takes another right turn, drives 10 km. and stops. How far is she from the starting point?

    (a) 16 km.   (b) 6 km.

    (c) 4 km.   (d) 12 km.

98. Today is Thursday. The day after 59 days will be?

    (a) Sunday   (b) Monday

    (c) Tuesday   (d) Wednesday

99. Jecob's mother is the only daughter of Carolyn's father. How is Carolyn's husband related to Jecob?

    (a) Uncle   (b) Father

    (c) Grandfather   (d) Data inadequate

100. Four girls are sitting on a bench to be photographed. Esther is to the left of Remi . Puii is to the right of Remi. Angela is between Remi and Puii. Who would be second from the left in the photograph?

    (a) Remi   (b) Esther

    (c) Puii   (d) Angela

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