

# INDIAN STATISTICAL INSTITUTE

Bangalore Centre

Program:-MS (Quality Management systems)

**Course:-Project Management**

**MID TERM EXAMINATION-SEPTEMBER 2024**

**Instructions to the Candidates:** The question paper Consistsof three Parts. Part –A is objective type questions meant to test your conceptual understanding of the subject taught to you. Part B Consists of questions to test your ability to get into the subject in detail. Part C Consists of analytical questions and this tests your ability to apply the knowledge to real world problem situations and scenario's. Part A has a weightage of 10 marks and is compulsory. Part B consists of 6questions with equal weightage and you need to answer any four it will be evaluated for a total of 20 Marks. Part C consists of five questions out of which you will have to attempt three full questions. Eachquestion in Part C has weightage of 10 Marks.

| <b>Q.No.<br/>1</b> | <b>Part A(Question numbers 1 (i to x)<br/>Answer all the questions in this part.</b>                     | <b>Marks</b> |
|--------------------|--|--------------|
| i.                 | What is the meaning of Organizational process assets?  | (01)         |
| ii.                | Define the term project management.  | (01)         |
| iii.               | Mention the five process groups as identified in the Project Management Framework?                       | (01)         |
| iv.                | List any four of the traits that a project manager must possess.   | (01)         |
| v.                 | Name any two Indian organizations that have instituted best practices in the area of project management. | (01)         |
| vi.                | List any two items that can be considered as Enterprise Environmental factors.                           | (01)         |
| vii.               | List any two aspects covered in the project management plan.   | (01)         |
| viii.              | Mention any two information heads that are part of a typical project charter document.                   | (01)         |
| ix.                | What is the meaning of a precedence network diagramming?   | (01)         |
| x.                 | Distinguish between event slack and activity float.  | (01)         |

| <b>Q.No.</b> | <b>Part B (Question Numbers 2 to 6)<br/>(Answer any four of the six full questions )</b>  | <b>Marks</b> |
|--------------|---|--------------|
| 2.           | Imagine you are given the responsibility of organizing the annual inter collegiate football sports events. Can you consider the role assigned to you as being the role of a project manager? Why or Why not?Can the process of organizing the inter collegiate festival be considered as a project? Why or Why not? | (05)         |
| 3.           | Bring out clearly the distinction between ongoing operations and project management. Give an example each for both of these.  | (05)         |
| 4.           | List any ten traits that a project manager must possess. Which of these traits will help him or her during the process of discussions related to arriving at the scope with an external client?   | (05)         |
| 5.           | Consider a project involving developing a user interface for a Smart phone. Explain how the concept of triple constraints would be applicable to this project.  | (05)         |
| 6.           | Write down the Project Charter in the standard format for any project that you have been involved in either in your personal capacity or in your professional capacity? Give brief details of the project.  | (05)         |

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| 7. | What are the inputs for the project scope management stage? Mention the tools and techniques deployed during project scope management. | (05) |
|----|--|------|

| Q.No.    | PART C (Question Numbers 7 to 9)<br>(Answer any two full questions out of the five full questions)  | Marks    |                      |          |   |   |   |   |   |   |   |   |   |   |   |    |   |   |   |   |     |   |    |
|----------|---|----------|----------------------|----------|---|---|---|---|---|---|---|---|---|---|---|----|---|---|---|---|-----|---|----|
| 8.       | <div><div><div><div><div>Level 1</div><div>Aircraft System</div></div><div>Aircraft Systems WBS<br/>(MIL-HDBK-881)</div></div><div><div>Level 2</div><div><div><div>Air Vehicle</div><div>SE/<br/>Program<br/>Mgmt</div><div>System<br/>T&amp;E</div><div>Training</div><div>Data</div><div>Peculiar<br/>Support<br/>Equipment</div><div>Common<br/>Support<br/>Equipment</div><div>Op/Site<br/>Activation</div><div>Industrial<br/>Facilities</div><div>Initial<br/>Spares and<br/>Initial<br/>Repair<br/>Parts</div></div><div><div>Airframe</div><div>Propulsion</div><div>Application Software</div><div>System Software</div><div>Com/Identification</div><div>Navigation/Guidance</div><div>Central Computer</div><div>Fire Control</div><div>Data Display and Controls</div><div>Survivability</div><div>Reconnaissance</div><div>Automatic Flight Control</div><div>Central Integrated Checkout</div><div>Antisubmarine Warfare</div><div>Armament</div><div>Weapons Delivery</div><div>Auxiliary Equipment</div></div><div><div>DT&amp;E</div><div>OT&amp;E</div><div>Mockups</div><div>T&amp;E<br/>Support</div><div>Test<br/>Facilities</div></div><div><div>Equipment</div><div>Services</div><div>Facilities</div></div><div><div>Tech Pubs</div><div>Engrg Data</div><div>Support<br/>Data</div><div>Manage-<br/>ment Data</div><div>Data<br/>Depository</div></div><div><div>Test and<br/>Measurem't<br/>Equipment</div><div>Support<br/>and<br/>Handling<br/>Equipment</div></div><div><div>Test and<br/>Measurem't<br/>Equipment</div><div>Support<br/>and<br/>Handling<br/>Equipment</div></div><div><div>Sys<br/>Assembly,<br/>Installation<br/>and<br/>Checkout<br/>on Site</div><div>Contractor<br/>Tech Support</div><div>Site<br/>Construction</div><div>Site/Ship<br/>Vehicle<br/>Conversion</div></div><div><div>Construc-<br/>tion/Conver-<br/>sion/Expan-<br/>sion</div><div>Equipment<br/>Acquisition<br/>or Mod<br/>Maintenance</div></div><div><div>(Specify by<br/>Allowance<br/>List,<br/>Grouping<br/>or H/W<br/>Element)</div></div></div></div></div><div><p>Given above is a structure of a two level WBS. Explain with proper description how you understand this WBS? Mention any two points to be considered while developing the WBS diagram.</p></div></div> | 10       |                      |          |   |   |   |   |   |   |   |   |   |   |   |    |   |   |   |   |     |   |    |
| 9.       | <p>The following table gives the details of a project.</p> <p>Construct the network diagram. Calculate the EST, EFT, LST, LFT. Determine the project duration and identify the critical path.</p> <table><tr><th>Activity</th><th>Predecessor Activity</th><th>Duration</th></tr><tr><td>A</td><td>-</td><td>3</td></tr><tr><td>B</td><td>A</td><td>5</td></tr><tr><td>C</td><td>A</td><td>7</td></tr><tr><td>D</td><td>B</td><td>10</td></tr><tr><td>E</td><td>C</td><td>5</td></tr><tr><td>F</td><td>D,E</td><td>4</td></tr></table>  | Activity | Predecessor Activity | Duration | A | - | 3 | B | A | 5 | C | A | 7 | D | B | 10 | E | C | 5 | F | D,E | 4 | 10 |
| Activity | Predecessor Activity  | Duration |                      |          |   |   |   |   |   |   |   |   |   |   |   |    |   |   |   |   |     |   |    |
| A        | -   | 3        |                      |          |   |   |   |   |   |   |   |   |   |   |   |    |   |   |   |   |     |   |    |
| B        | A   | 5        |                      |          |   |   |   |   |   |   |   |   |   |   |   |    |   |   |   |   |     |   |    |
| C        | A   | 7        |                      |          |   |   |   |   |   |   |   |   |   |   |   |    |   |   |   |   |     |   |    |
| D        | B   | 10       |                      |          |   |   |   |   |   |   |   |   |   |   |   |    |   |   |   |   |     |   |    |
| E        | C   | 5        |                      |          |   |   |   |   |   |   |   |   |   |   |   |    |   |   |   |   |     |   |    |
| F        | D,E   | 4        |                      |          |   |   |   |   |   |   |   |   |   |   |   |    |   |   |   |   |     |   |    |
| 10.      | <p>Explain the role of project management in any organization. Why is there a need for exclusive Project Management Office? Discuss with help of a fairly large and complex project as an example.</p>  | 10       |                      |          |   |   |   |   |   |   |   |   |   |   |   |    |   |   |   |   |     |   |    |

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| 11. | Explain the processes involved in the area of Project Integrated Management with the help of an illustrative diagram. Outline why the project integration management is a separate knowledge area in pmbok.  | 10 |
| 12. | What are the tools and techniques for carrying out the activities under project time management? What are the four types of precedence relationships that we can come across while constructing the project network diagram? Discuss by using illustrations. | 10 |

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