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**SELECTION TO THE POST OF AME(Group 'B') IN MECHANICAL  
DEPARTMENT THROUGH DEPARTMENTAL SELECTION (70% QUOTA)**

Date: 31.1.2009

Max. marks : 150

Note: (i) Time allowed is three hours + 10 minutes extra for going through the question paper.

(ii) Answer any five questions from 'PART - A' and any three questions from 'PART-B'. All questions from PART-A carry 21 Marks each & all questions in PART-B, carry 15 marks each.

**PART-A**

- Question-1. What are the major quality problems in your area of work? List them briefly. Analyze any one of them and suggest a workable solution for the same.
- Question-2. Describe in details the painting process (from start to finish) followed in ICF for painting MRVC coaches. Also briefly write the important checks exercised during this painting.
- Question-3. Describe in detail the preparation of cost estimate for coaches to be supplied to non-railway customers.
- Question-4. What are the various welding processes which are in use in ICF for manufacture of coaches? Also bring out the advantages & disadvantages of each of them.
- Question-5. What are the various coach items ( for conventional coaches ) where specifications have been upgraded by RDSO recently with a view to increase the coach POH periodicity from existing 12 months to 18 months? Give in brief the changes made in these items.
- Question-6. Describe in detail, the manufacturing process followed on SGACCW coach in Furnishing Division. Give in brief the important quality check points.
- Question-7. Write short notes on any three of the following:-
- (i) ISO-14000
  - (ii) Tempering
  - (iii) Shot blasting
  - (iv) Deposit works
  - (v) Energy Conservation

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Question-8. How the M&P Programme formulated. Give in brief the various stages and time table followed?. How the same is executed?

**PART-B**

Question-9. What are the statutory provisions in Official Language Act'1963 and what steps have been taken by ICF to comply with them?

Question-10. What are the various managerial statements(monthly) generated by EDP centre in regard to Manpower (DIRECT workers, Essential Indirect workers & Indirect workers) utilization in production shops? Also write in brief the utility of these statements.

Question-11. What are the Welfare provisions in Factory Act? Briefly describe the arrangements made in ICF to comply with these Welfare provisions.

Question-12. Write short notes on any three of the following:

- (i) PAC (Proprietary Article Certificate)
- (ii) Works Contract
- (iii) Inventory Control
- (iv) Limited Tender
- (v) Non-stock purchase

Question-13. What is the purpose of preparation of Budget as applicable to ICF. What are the various steps involved through the year to prepare the same?