

INTEGRAL COACH FACTORY, CHENNAI-600 038.

SELECTION TO THE POST OF AME/AWM (GR.B) IN LEVEL-8 OF VII FC SCALES (PRE-
REVISED SCALE OF PB-2: RS.9300-34800 + 4800 GP) THROUGH LDCE SELECTION
(30% QUOTA)

PAPER-II

Dated: 13.01.2017

Maximum marks: 150

Note:

- i) Time allowed is three hours plus 10 minutes extra for going through the question paper.
- ii) In case of any difference in the English and Hindi versions, English version will prevail.-
- iii) Mobile phones/Electronic gadgets/calculators are NOT allowed.

Part-A – Establishment and Financial Rules – 50 marks

Q.No.1 and 2 are COMPULSORY

Attempt any one of Q.No.3 or Q.No.4

Q.No.1 Write short notes on any FIVE -- Each carries 4 marks.

- 1.1 How to deal with a drunken employee?
- 1.2 How to deal with a rogue employee?
- 1.3 Productivity Linked Bonus
- 1.4 Group Insurance
- 1.5 Incentive Scheme in ICF
- 1.6 What do you mean PPEs used for safety? Give 5 examples of PPEs in ICF.
- 1.7 How to deal with an employee on unauthorized absence?

Marks: 20

Q.No.2 Each question carries 5 marks:

- 2.1 What is the purpose behind merging Rail Budget with General Budget? What do you mean by EBR financing?
- 2.2 What is difference between Plan Head and Primary Unit of expenditure? Which Plan Head deals with procurement of machines? Which Primary Unit is utilized for contractual payments?
- 2.3 What do you mean by WMS? What is the difference between RSP and M&P Programme?
- 2.4 What is role of IRFC? Why does it issue BONDS?

Marks: 20

Q.No.3 Each question carries 5 marks:

- 3.1 Describe system taking attendance of the staff in ICF. What is bio-metric system of taking attendance? What are your views on the subject?
- 3.2 Please fill Factory Timings in the following table.

ICF WORKING HOURS

Location	Shift	Fore-noon	Afternoon	Remarks
Factory	Day			Monday to Friday
	Night			
	Day			Saturday
	Night			
Admin Office	Day			Monday to Friday
				Saturday

Marks:10

Q.No.4 Answer the following. All questions carry 2 marks

- 4.1 Expand DCRG.
- 4.2 What is PLB?
- 4.3 Role of Factory Inspector
- 4.4 Who are designated as Occupiers in ICF? What are their responsibilities?
- 4.5 Describe duties of Safety Officers in ICF.

Marks:10

PAPER-II

PART-B – Professional ability – Total marks: 100 – All questions carry 20 marks –

Answer any FIVE of the following.

Q.No.1 Each question carries 5 marks:

- 1.1 How a DEMU is different than EMU?
- 1.2 What is difference between EMU and MEMU?
- 1.3 How an electric train set is different than EMU?
- 1.4 What are the special features of SPART?

Marks: 20

Q.No.2 Each question carries 5 marks:

- 2.1 Describe the advantages of LHB coaches over ICF coaches.
- 2.2 Describe difference in the infrastructure required for manufacturing ICF coaches and LHB coaches.
- 2.3 What is difference between MIG and TIG welding?
- 2.4 Describe working of Laser Cutting and Welding machines.

Marks: 20

Q.No.3 Each question carries 5 marks:

- 3.1 Where do you use friction welding?
- 3.2 What do you mean by spot welding process? In which conditions it is essential to use spot welding?
- 3.3 What is the purpose of shot blasting of coaches? In place of garnet blasting, what technique is used in ICF for surface preparation of LHB Shells?
- 3.4 What are DETC coaches currently under manufacture in ICF? Why Indian Railways need them on priority?

Marks:20

Q.No.4 Each question carries 5 marks:

- 4.1 What is the difference between RMPU, RMVU and RMHU?
- 4.2 What are the essential requirements of a High Speed Train set?
- 4.3 What is the purpose of retention tank in ICF coaches? Describe its mechanism.
- 4.4 Write short note on Chennai Rail Museum.

Marks: 20

Q.No.5 Each question carries 5 marks:

- 5.1 Describe role of COFMOW.
- 5.2 Describe role of RDSO.
- 5.3 Describe the various workstations required in manufacturing LHB Shell by means of a flow chart.
- 5.4 Describe the various workstations required in manufacturing FIAT bogie by means of a flow chart.

Marks: 20

Q.No.6 Each question carries 5 marks:

- 6.1 Recently trials with TALGO coaches were conducted. What are special features of these coaches?
- 6.2 What is the difference between FIAT bogie and ICF bogie?
- 6.3 What are the different materials used for cushioning seats in Railway coaches in ICF?
- 6.4 What are the various destructive and non-destructive tests used in ICF for ensuring quality of material used in manufacturing process?

Marks: 20