

Q(A) Choose correct answer:

- I. POH periodicity of BOXN wagon is _____
a) 2year b) 3years c) 4.5 years d) 5 years
- II The test which is done by reducing BP pressure at the rate of 0.3kg/cm² in 3 sec. is known as
a. Release b. application c. Sensitivity d. Insensitivity
- III. The state of M.P. falls in region -----according to division of Hindi region.
a) A b) B c) C d) D
- IV. In Hybrid coaches BSS hangers and Equalizing stay rods are
a) Fitted in same place b) Excluded c) Fitted at another place
- V. The standard buffer projection from Head stock is
a) 650mm b) 635mm c) 620mm d) 660mm
- VI. The quantity of grease required per axle box of a ICF coach is
a) 1.75 kg b) 2.00kg c) 2.5 kg d) 1.5 kg
- VII. Which type of brake blocks are used in Bogie Mounted Brake System?
a) 'K' type brake block b. 'L' type brake block.
c. Sand casting brake block. d. 'M' type brake block.
- VIII. The condemning dia of BOXN wheel is
a. 906 mm b. 845 mm c. 915 mm d. 913mm
- IX What is the axle load of ICF AC bogie ?
a. 20.3 t b. 16.25 t c. 35 t d. 40 t
- X. Which type of roller bearing is used in casnub bogie ?
a. CTRB b. Spherical roller bearing
c. Cylindrical roller bearing d. Plain bearing

(B) Choose correct answer:-

[10x2=20]

- a) Mail/Express trains round trip journey >3500 km falls under RPC- 4 category
a) 2 b) 1 c) 4 d) 5
- b) Suspension under D & A rules is
a) Major penalty b) Minor penalty c) No penalty d) Removal
- c) The condemning dia of BTPN wheel is
a) 813 mm b) 990 mm c) 906 mm d) 860 mm
- d) The nominal lateral clearance between side frame & axle box adopter of Casnub 22HS bogie is
a) 18mm b) 16mm c) 22mm d) 25mm
- e) The diameter of new pin for BSS hanger is
a) 35 mm b) 37 mm c) 38 mm d) 40 mm
- f) POP marks are related to
a) Tank Wagon b) ICF Bogie c) FIAT Bogie d) Casnub Trolley
- g) Elastomeric pads are provided to
a) reduce wheel flange wear b) improve ride index.
c) increase buffer height. d) all of the above.
- h) The dia of knuckle pivot pin is
a) 40 mm b) 38 mm c) 37 mm d) 35 mm
- i) What is the axle load of Casnub bogie ?
a) 20.3 t b) 16.25 t c) 35 t d) 40 t
- j) Auxiliary reservoir is assisting in
a) charging of DV b) charging of BP
c) Sending air to BC d) charging of CR

(C) Choose correct Answer.

- I. No of Shock absorber in Fiat bogie is
a) 5 b) 9 c) 10 d) 7
- II The condemning size of elastomeric pad for casnub bogie is...
a) 44 mm b) 43 mm c) 42 mm d) 40 mm
- III. Cleaning of dirt collector is done in...
a) A schedule b) B schedule c) IOH d) POH
- IV. No. of POP marks on a new casnub trolley is...

- a) 02 b) 04 c) 05 d) 06
- V. The load in ICF coach transmitted through...
- a) Centre Pivot b) Side bearer c) Anchor link d) Stay rod
- VI. The condemning size of brake block of good stock is...
- a) 30 mm b) 10 mm c) 20 mm d) 15 mm
- VII. Which type of brake blocks are used in Bogie Mounted Brake System?
- a) 'K' type brake block b) 'L' type brake block.
c) Sand casting brake block. d) 'M' type brake block.
- VIII. Leakage in brake cylinder presser allowed in case of single wagon testing in 5 minutes is...
- a) 0.2 kg/cm² b) 0.1 kg/cm² c) 0.3 kg/cm² d) 0.4 kg/cm²
- IX. What is the axle load of Casnub bogie?
- a) 20.3 t b) 16.25 t c) 35 t d) 40 t
- X. Which type of roller bearing is used in FIAT bogie ?
- a) CTRB b) Spherical roller bearing
c) Cylindrical roller bearing d) Plain bearing

Q.(A) Fill up the blanks with the correct answer:-

- (i) Mail/Express trains with one-way journey more than 3500 km falls under RPC-4 category _____.
- (ii) A-Dimension Of BOBRN Wagon is _____
- (iii) Condemning Height of bolster Inner Spring of 22 HS bogie is _____.
- (iv) PNM stands for _____.
- (v) The number of snubber spring in a casnub trolley _____.
- (vi) The standard piston stroke of LHB coach is _____
- (vii) HYTREL Washers are used at _____
- (viii) CTS & CDTS stands for _____
- (ix) In welding work the permissible voltage is _____
- (x) Number of cartridge roller per box is _____.
- (xi) IRCA part III is related to _____
- (xii) Codal life of ICF coach is _____
- (xiii) Brake block keys are manufactured from _____
- (xiv) The colour of BPC for coaching train is _____
- (xv) The type of CBC used in coaching stock. is _____
- (xvi) POH periodicity of LHB coach is _____
- (xvii) PL No. is assigned for _____ item.
- (xviii) The Brake Cylinder fitted on BOXNHL is _____ type
- (xix). The quantity of oil in each side bearer of ICF coach is _____
- (xx). The number of rollers in CTRB is _____

(B). Fill in the blanks with correct answer:-

- a) There is a condemning mark in a _____ wheel
- b) There are _____ number of brake cylinders in BMBS wagon.
- c) BPC issued for Premium rakes will be valid for _____ days
- d) The number of hydraulic shock absorber in FIAT bogie are _____
- e) The memo used for drawal of items from the store of a C&W depot is _____

(C). Fill in the blanks with correct answer.

- I. The condemning size of LHB coach wheel is _____
- II. The auxiliary reservoir pressure in case of single pipe air brake system is _____.
- III. ACCW is the codification of _____
- IV. Rigid wheel base of casnub trolley is _____
- V. Condemning dia of ICF wheel is _____

Q.(A) Match the following:-

[5x2=10]

a) WWP

i) CBC

- | | |
|-------------------|--------------------|
| b) Anti-creep | ii) Tank Wagon |
| c) Constant floor | iii) LHB |
| d) Retention Tank | iv) Air Suspension |
| e) Master Valve | v) CDTS |

(B). Match the following

- | | |
|-------------------|----------------|
| a) WSP | i) CBC |
| b) Anti-creep | ii) Tank Wagon |
| c) Flux | iii) LHB |
| d) Retention Tank | iv) Antioxide |
| e) Master Valve | v) CDTS |

(C). Match the following

- | | |
|-----------------|--------------------------|
| a) Pawl | i) Casnub |
| b) POP Marks | ii) 'L' Type brake block |
| c) Straight Bar | iii) BMBC |
| d) Goods | iv) WSP |
| e) Speed Sensor | v) BLC |

Q. Tick (✓) the correct answer from choices given below:-

- I. Major penalty charge sheet is issued in form no. SF-5 TRUE / FALSE
- II. Grease is used in UST probes for matching impedance TRUE / FALSE
- III. The type of bearing used in LHB coach is Spherical. TRUE / FALSE
- IV. CR pressure during full service application is 3.8 Kg/sq.cm TRUE / FALSE
- V. There are two numbers of lateral shock absorber in a FIAT bogie. TRUE / FALSE

- Q. (i) What type of examinations are carried out in freight stocks of Indian railway?
(ii) Write the salient features, advantages and disadvantages of C C rake.
(iii) State two main points of differences between cast wheel and forged wheel ?

- Q. (i) What are the causes of train parting ?
(ii) What are the special features of BLC wagon ?
(iii) How is train leakage test done?

- Q. (i) How is a compressor capability test done?
(ii) What do you mean by hot axle?
(iii) What are the symptoms of hot axle?
(iv) What are its causes?

- Q. (i) What are the procedures of loco leakage test?
(ii) Draw a schematic diagram of twin pipe air brake system? Explain procedure of charging, application and release.

- Q. (i) State and explain SWTR
(ii) Explain the procedure of ROH of BOXN wagon.

- Q. (a) Name ten documents which are statutorily required to be bilingual according to subsec(3) of section(3) of official language act.
(b) What are the differences between Stock & Non Stock items?
(c) Write Short Notes on Pass Rule

- Q. (a) What are the different schedule carried out on the coaching stock and what are their periodicity ?
(b) What are the different activities to be carried out in 'Trip' schedule and 'B' Schedule

- Q. (a) Draw a schematic diagram and label all the components of a twin pipe air brake system.]
(b) Explain the charging and application of brakes in case of twin pipe air brake system .
- Q. (a) Draw a comparison between ICF and LHB coach.
(b) Draw a schematic diagram of Air Suspension System used in hybrid coaches.
- Q. (a) What type of maintenance schedules are carried out in coaching stock ? Mention each of them with their periodicities.
(b) Explain in detail the items check in “A” schedule.
- Q. (a) Name the tests that are carried out during SCTR along with their parameters.
(b) How the LOCO compressor capability is tested?
- Q. (a) Name eight documents which are statutorily required to be bilingual according to Sub-section(3) of section(3) of official language act.
(b) How do you classify Hindi Regions?
(c) Write Short Notes on Paternity leave.
- Q. (a) Differentiate between Stock and Non-stock items?
(b) What is M & P Programme and Rolling Stock Programme?
(c) Write a short note on Imprest Store.
- Q.(a) What is meant by train parting?
(b) Name the CBC defects that can cause train parting
(c) What steps do you take to minimize train parting during train examination at yard ?
- Q. (a) Name ten documents which are statutorily required to be bilingual according to subsection(3) of section(3) of official language act.
(b) How do you classified Hindi Regions?
(c) Write Short Notes on Child Care Leave.
- Q. (a) What is meant by train parting ? .
(b) Name the CBC defects that can cause train parting
(c) What steps do you take to minimize train parting during train examination at yard ?
- Q. a) Explain the charging and application of brakes in case of Single pipe air brake system.
b) Draw a schematic diagram of Single pipe air-brake system and label all the components.
- Q. (a) How is LOCO leakage test done ?
(b) What are the procedures of train leakage test ?
(c) How is compressor capability tested?
- Q. (a) What type of wheel defects are found ? State each of them with their condemning limit.
(b) What are the special features of BLC wagon ?
- Q. Write Short Notes on(any Three).
(i) DRS Card (ii) OBHS (iii) Special Repair (iv) P.L.No.