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30-09-21

MODERN COACH FACTORY, RAEBARELI

RBL-MIDCON2

dated: 30.09.2021

Secy. to PCME
MCF/RBL

*for 30/9/21
Dy.CME/Sajid Tams*

Sub: Submission of sample Question Bank.
Ref: Your letter no. MCF/RBL/PCME/112281 Vol-II, dated 25.09.2021.

With reference to above subject, sample Question Bank (Multiple Choice Questions) for PQ & LDCE of JE/Mechanical design has been prepared and attached as Annexure-A for further necessary action please.

DA: Annexure-A

(ml)
30/9/21
(Lalit Kishore)
Dy.CME/Design-I

*PTEC
5/10/21*

*SSE/PTC. Co
for v/a P/C.
Shivani
05/10/21*

Questions Bank

Annexure-A

Multiple Choice Questions:

1. Maximum Riding Index of LHB coach is -----.

- (a) 2.75 (b) 2.0 (c) 4.8 (d) None of these

Ans: (a) 2.75

2. Length over body of LHB coaches.....mm.

- (a) 24351 (b) 22996 (c) 26740 (d) 23540

Ans: (d) 23540

3. No. of brake cylinders in one LHB coach are

- (a) 18 (b) 04 (c) 08 (d) 16

Ans: (c) 08

4. Type of coupler used in LHB coach is.....

- (a) AAR H-type (b) AAR E-type (c) AAR F-type (d) None of these

Ans: (a) AAR H-type

5. Maximum diameter of Axle mounted Disc brake in LHB coach is.....mm

- (a) 890 (b) 640 (c) 540 (d) None of these

Ans: (b) 640

6. Capacity of auxiliary reservoir used in air brake of LHB coach is.....litre

- (a) 100 (b) 125 (c) 200 (d) 150

Ans: (b) 125

7. Maximum width over body of LHB coaches.....

- (a) 3260 mm (b) 2356 mm (c) 3456 mm (d) 3240 mm

Ans: (d) 3240 mm

8. New wheel diameter of LHB wheel

- (a) 910 mm (b) 915 mm (c) 830 mm (d) 725 mm

Ans: (b) 915 mm

9. Thickness of Corrugated sheets of LHB coaches is

- (a) 2 mm (b) 3 mm (c) 1.25 mm (d) 2.5 mm

Ans: (c) 1.25 mm

10. Yaw damper is fitted on –

- (a) Sole bar (b) Bogie (c) Under frame (d) Between under frame and bogie frame

bogie frame

Ans: (d) Between under frame and bogie frame

11. Brake caliper unit mounted on –

- (a) Bogie brake beam (b) Bogie side frame (c) Wheel axles (d) Any of above

Ans: (a) Bogie brake beam

12. Maximum CBC height from the rail level is ----- mm

- (a) 1005 (b) 1055 (c) 1105 (d) 1155

Ans: (c) 1105

13. Distance between Centre of two bogies is in LHB coach is –

- (a) 15000 mm (b) 14900 mm (c) 19500 mm (d) 15090 mm

Ans: (b) 14900 mm

14. What is the advantage of dampers?

- (a) Suspension may be increased. (b) Ridding index may be improved. (c) Comfort may be increased. (d) All of above

Ans: (d) All of above

15. PNM stands for in terms of Railways—

- (a) Progressive Networks Media (b) Portable Network Media (c) Permanent Negotiating Machinery (d) Pulse Number Modulation

Ans: (c) Permanent Negotiating Machinery

16. IRCTC stands for –

- (a) Indian Railway Catering and Tourism Corporation (b) Indian Railway Customer Ticket Creator
(c) Indian Railway Central Traffic Control (d) Indian Railway Cost To Company

Ans: (a) Indian Railway Catering and Tourism Corporation

17. RDSO stands for—

- (a) Railways Designs and Standards Organisation (b) Research Drawings and Specifications Organisation
(c) Research Designs and Standards Organisation (d) Railways Drawings and Specifications Organisation

Ans: (c) Research Designs and Standards Organisation

18. RITES stands for—

- (a) Rail India Technical Enforcement Support (b) Rail India Thermal Energy System (c) Rail India Teacher Education System
(d) Rail India Technical and Economic Service

Ans: (d) Rail India Technical and Economic Service

19. ARME stands for—

- (a) Automatic Relief Mechanical Equipment (b) Accident Relief Mechanical Equipment
(c) Accident Relief Medical Equipment (d) Automatic Response Medical Equipment

Ans: (c) Accident Relief Medical Equipment

20. RPF stands for in terms of Railways—

- (a) Rehabilitation Police Force (b) Regional Protection Force (c) Railway Power Force
(d) Railway Protection Force

Ans: (d) Railway Protection Force

21. Thickness of side wall sheets of LHB coaches is —

- (a) 2 mm (b) 3 mm (c) 1.25 mm (d) 2.5 mm

Ans: (a) 2 mm

22. Sole bar of LHB Coaches are manufactured from -

- (a) Austenitic steel (SS 304) (b) IRSM-41 (c) Ferritic steel (SS-409) (d) IRSM-44

Ans: (b) IRSM-41

23. Thickness of sole bar of LHB coaches is -

- (a) 2 mm (b) 5 mm (c) 4 mm (d) 6 mm

Ans: (d) 6 mm

24. Capacity of an underslung water tank fitted in LWSCN Coach is

- (a) 650 Ltr. (b) 685 Ltr. (c) 400 Ltr. (d) 500 Ltrs

Ans: (b) 685 Ltr.

25. Bearing used in Axle box of FIAT bogie

- (a) Ball bearing (b) Spherical Roller Bearing (c) Bush Bearing (d) Cartridge Taper Roller Bearing

Ans: (d) Cartridge Taper Roller Bearing

26. Pressure of air in air brake pipe is

- (a) 4 kg/cm² (b) 5 kg/cm² (c) 6 kg/cm² (d) 7 kg/cm²

Ans: (b) 5 kg/cm²

27. Pressure of air in air feed pipe is

- (a) 4 kg/cm² (b) 5 kg/cm² (c) 6 kg/cm² (d) 7 kg/cm²

Ans: (c) 6 kg/cm²

28. In gas welding the oxygen cylinder is painted with colour

- (a) Green (b) Maroon (c) Black (d) White

Ans: (c) Black

29. No. of digits in PL No. is

- (a) 5 (b) 6 (c) 7 (d) 8

Ans: (d) 8

30. _____ test is being used to detect internal faults of the Axles.

- (a) Hardness (b) UST (c) DPT (d) None of them

Answer: (b) UST

31. _____ defects can be detected in DPT test.
 (a) Surface (b) Internal (c) Hardness (d) None of them
 Answer: (a) Surface
32. The height of compartment floor from rail level under tare condition is _____ mm.
 (a) 1303 (b) 1105 (c) 1130 (d) 1160
 Answer: (a) 1303
33. Maximum Speed of LHB Coach is _____ KMPH.
 (a) 120 (b) 160 (c) 110 (d) 130
 Answer: (b) 160
34. The Coach Code for AC Chair Car (Executive Class) is _____.
 (a) LWSCZAC (b) LWSCZ (c) LWACCN (d) LWFCZAC
 Answer: (d) LWFCZAC
35. The standard document that is being followed for tendering is _____.
 (a) SCC (b) WI (c) GCC (d) LOA
 Answer: (c) GCC
36. The track Gauge of Coaches being manufactured for Mozambique at MCF is _____ mm.
 (a) 1000 (b) 1067 (c) 1676 (d) 1076
 Answer: (b) 1067
37. Which of the following is not a feature introduced first time in SMART Coach?
 (a) FIBA (b) Onboard Condition monitoring system (c) Infotainment System (d) Energy metering module
 Answer: (a) FIBA
38. The lateral and longitudinal displacement of bolster beam is limited by _____.
 (a) Bump stop (b) Anti roll bar (c) Anchor link (d) Traction centre
 Answer: (a) Bump stop
39. Total number of dampers fitted in FIAT bogie are _____.
 (a) 5 (b) 6 (c) 8 (d) 9
 Answer: (d) 9
40. Total weight of filled bio-digester tank is _____ kg.
 (a) 310 (b) 210 (c) 510 (d) 410
 Answer: (d) 410
41. What is the percentage of carbon in plain carbon steel?
 (a) 60 to 80% (b) Less than 1.7% (c) Less than 7% (d) None of the above
 Ans: (b) Less than 1.7%