



M&P Questions

1. Name the company that has set up wheel line in MCF?

- a) Danobat group of Machine tools b) SMS group.
c) SIS corporation d) Baykal corporation

2. How many line gantry is/are in wheel shop?

- a) 02 b) 03 c) 04 d) 05

3. How many area gantry is/are there in wheel shop?

- a) 01 b) 02 c) 03 d) 04

4. What is the full form of HMI?

- a) Human measurement Interface b) Human Machine Integration
c) Human Machine Interface d) Human Mechanical Interface

5. How many tool turrets are there in axle turning lathe installed in wheel shop?

- a) Single turret b) Double turret c) No, turret only tool part d) None of these

6. How much interference is achieved while pressing wheel disc?

- a) Minimum 0.238, Maximum 0.313 b) Minimum 0.228, Maximum 0.313
c) Minimum 0.221, Maximum 0.323 d) Minimum 0.218, Maximum 0.331

7. Which type of balancing of wheel set is done in MCF?

- a) Static Balancing b) Dynamic balancing c) Field balancing d) None of these

8. At how much RPM balancing of LHB wheel sets done?

- a) 360 RPM b) 390 RPM c) 260 RPM d) 300 RPM

9. What is the full form of CTRB?

- a) Close tapered Roller bearing b) Centred tapered Roller bearing
c) Cartridge tapered Roller bearing d) Cold tempered Roller bearing

10. What is the recommended surface roughness (Ra) value for Journal?

- a) N6 0.8 μm b) N7 1.6 μm c) N8 3.2 μm d) N4 0.2 μm

11. Which axis is/are used for writing CNC program in CNC lathe machine?

- a) X, Y, Z b) X, Y only c) X, Z only d) Y, Z only.


 उप मुख्य यंत्रिक अभियंता/एम एण्ड पी.
 Dy. Chief Mech. Engineer/M&P
 आधुनिक रेल डिब्बा कारखाना, रायबरेली
 Modern Coach Factory, Raebareilly





12. What is diameter of journal & wheel seat of LHB finished axle?

- a) 130 (+0.068 to +0.043) mm to 195 (+0.313 to +0.284) mm
- b) 130 (+0.168 to +0.143) mm to 195 (+0.413 to +0.288) mm
- c) 130 (+0.268 to +0.243) mm to 195 (+0.208 to +0.108) mm
- d) 130 (+0.468 to +0.178) mm to 195 (+0.200 to +0.100) mm

13. What is cycle time for one wheel set in wheel line?

- a) 20 min.
- b) 22 min.
- c) 18 min.
- d) 17 min.

14. What is the abrasive and grain size used grinding wheel in axle grinding machine?

- a) A, 60
- b) C, 60
- c) A, 120
- d) C, 120

15. What is the full form of PLC?

- a) Program language control
- b) Program logic control
- c) Programmable logic controller
- d) Program language centre

16. Why Magnetic Particle inspection of axles is important?

- a) Because it detects sub-surface cracks
- b) Because it detects surface cracks
- c) Because it checks surface finish
- d) Not important.

17. Why coolant/cutting oil is used during Machining?

- a) It prevents tool wear by taking away heat
- b) It is only used for washing work piece & tool
- c) It is only used to cool work piece
- d) None of these

18. Which type of fit is used during assembly of wheel & axles in wheel line?

- a) Clearance fit
- b) Interference fit
- c) Transition fit
- d) No fit is used

19. How much is the recommended wheel disc mounting pressure?

- a) 700 – 1100 KN
- b) 680 – 1072 KN
- c) 600 – 1172 KN
- d) 500 – 700 KN

20. How much difference in diameter is permitted for wheel on same axle?

- a) 1mm
- b) 2 mm
- c) 0.5 mm
- d) 1.5 mm

21. How much should be the distance between inner surfaces of wheel on same axle?

- a) 1600 ±1 mm
- b) 1599 ±1 mm
- c) 1676 ±1 mm
- d) 1600 ±2mm

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Dy. Chief Mech. Engineer/M&P
आधुनिक रेल डिब्बा कारखाना, रायवरेली
Modern Coach Factory, Raebareilly



34. Which Type of service brake is used in Rail cum Road Vehicle?

- a) Mechanical b) Pneumatic c) Hydraulic d) Air

35. How many Forward/ Reverse Gear are available in Rail cum road vehicle?

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

36. Which type of laser machines are installed in sheet metal shop of MCF?

- i. CO₂ slab resonator based
ii. Fibre laser based
iii. YAG laser based

- a) Both i & iii b) Both i & ii c) Both ii & iii d) Only b

37. The Laser cutting machines installed in sheet metal shop belong to which company?

- a) Cyril bath b) Baykal c) Schroeder fasti d) Bisiach & Carru

38. What is full form of AMC?

- a) Auxiliary machine contract. b) Asynchronous machine contract
c) Annual maintenance contract d) Anode maintenance contract

39. How many CNC Laser machines are installed in sheet metal shop of MCF?

- a) 3 b) 4 c) 5 d) 6

40. What is codal life of a CNC machine as per Railway board guidelines?


- a) 10 years b) 15 years c) 20 years d) 25 years

41. Which machine is utilized for making Roof arches?

- a) Four column Hydraulic 800ton press b) Shear centre machine
c) Multiple station machine d) Stretch bending & forming machine

42. What is full form of CNC?

- a) Computer number control b) Computerized number controller
c) Computerized numerical control d) Computer numerical control


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आधुनिक रेल डिब्बा कारखाना, रायवरेली
Modern Coach Factory, Raebareli

43. How is laser beam transferred from laser generator to cutting head in Laser cutting machine?

- a) Through mirrors. b) Through optic fiber cable.
c) Only through option b. d) Both options a & b

44. CNC shear centre machine installed in sheet metal shop is of make- "M/s Baykal make". Where is the headquarter of M/s Baykal make ?

- a) Germany b) South Korea c) Turkey d) Russia

45. Which machine is used for Flaring of windows of sidewall ?

- a) Stretch bending & forming machine b) Four column Hydraulic 800 ton press machine.
c) Hydraulic press brake 800 Ton machine d) Folding machines.

46. Which gas is used at the cutting head for CNC laser cutting machines?

- a) Argon b) Nitrogen c) Argo-mix d) Atmospheric Air.

47. Vehicle used for material handling purpose in MCF/RBL is.

- a) Fork Lift Truck b) Rail cum Road Vehicle c) Road Mobile Crane d) All of these

48. Name the acid used in lead acid cells.

- a) Sulphuric Acid b) Nitric Acid c) Hydrochloric Acid d) Phosphoric Acid

49. Inverter converts?

- a) DC to AC b) DC to DC c) AC to AC d) AC to DC

50. Name the method to be used to find out Earth leakage.


- a) Double test lamp method b) Multi meter method
c) Multi meter method d) Volt meter method

51. IGBT are used as:

- a) High frequency switching device b) Illuminating device
c) Low frequency switching device d) Amplifier

52. What is the name of a large hook used to lift goods from a crane?

- a) AH b) pulley c) Large hook d) MH


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Dy. Chief Mech. Engineer/M&P
आधुनिक रेल डिब्बा कारखाना, रायवरेली
Modern Coach Factory, Raebareilly

53. What is the full form of EOT crane?

- a) Easy over head travelling crane b) Electric over head travelling crane .
c) Electrical over head travelling crane d) None of these

54. What is the full form of SWL?

- a) Slow working load b) Safe working load
c) Straight working load d) None of these

55. Maximum capacity of the Crane, used in MCF/RBL?

- a) 20 Ton b) 15 Ton c) 10 Ton d) 5 Ton

56. How to lift the job by EOT crane?

- a) From pulley b) From Hook c) From snatch pulley block d) None of these

57. What is EOT Crane?

- a) Material handling device b) Material flooring device
c) Material lifting device d) All of the these

58. What is included in the PPE?


- a) Safety shoes b) Helmet, Gloves c) Ear plug d) All of these

59. What is the meaning of 20/5E written on the Crane?

- a) 20T MH & 15T AH b) 20T AH & 5T MH
c) 20T MH & 5T AH d) None of these

60. What is the full form of PPE?

- a) Personal power earning b) Personal protective equipment
c) Protective personal equipment d) None of these


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आधुनिक रेल डिब्बा कारखाना, रायवरेली
Modern Coach Factory, Raebareli



Answer sheet

1-a	9-c	17-a	25-a	33-c	41-d	49-a	57-c
2-a	10-a	18-b	26-c	34-b	42-c	50-a	58-d
3-a	11-c	19-b	27-c	35-d	43-d	51-a	59-c
4-c	12-a	20-c	28-d	36-b	44-c	52-d	60-b
5-b	13-c	21-a	29-a	37-b	45-b	53-b	
6-a	14-a	22-c	30-b	38-c	46-b	54-b	
7-b	15-c	23-c	31-d	39-c	47-d	55-a	
8-a	16-b	24-d	32-b	40-b	48-a	56-b	

उप मुख्य यांत्रिक अभियंता/एम एण्ड
Dy. Chief Mech. Engineer/M
आधुनिक रेल डिब्बा कारखाना, रायबरेली
Modern Coach Factory, Raebareilly