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**Secy. to PCME
MCF/RBL**

Sub:- Regarding sample Question Bank for PQ & LDCE of JE/Mechanical & JE/Electrical
Ref:-No. MCF/RBL/PCME/12281, Vol-II dated 25.09.2021

Vide above reference mention subject, sample question Bank for PQ & LDCE of JE/Mechanical & JE/Electrical 66 multiple choice questions of Sheet Metal and Housekeeping are enclosed herewith.

Enclose - 10 Pages.


Dy.CME/SMS & HK/21/12/21
MCF/RBL

Copy to –

Dy.CME/Safety & Training

Question Bank pertaining to Sheet Metal Shop and Housekeeping

Ques.1- Types of sheets thickness used in Roof Sheet in MCF is.....

- (a) 1.25 mm and 1.7 mm SSA (b) 1.7 mm. and 5mm SSA
(c) 1.50, mm and 2.5 mm SSA (d) 1.65 mm and 1.75 mm S SA
(a) 1.25 mm and 1.7 mm S SA

Ques.2 Uses of N₂ and O₂ gases for laser cutting machine is....

- (a) N₂ use for cutting of SSA & SSF sheets and O₂ gas use for M,S. CS sheets.
(b) Cutting of MA Sheets
(c) Cutting of Aluminium Sheets
(d) All of these

(a) N₂ use for cutting of SSA & SSF sheets and O₂ gas use for M,S. CS sheets

Ques.3 What is the advantage of laser cutting machine?

- (a) To maintain high accuracy, minimise heat effective zone and fitter surface finish.
(b) To maintain heat treatment
(c) To increase strength
(d) All of these

(a) To maintain high accuracy, minimise heat effective zone and fitter surface finish

Ques.4 Why are used SSA sheet in Roof Sheet & Trough Floor in LHB Coaches ?

- (a) Minimise Corrosion. (b) Minimise sound insulation
(c) Increase strength (d) None of these

(a) Minimise Corrosion.

Ques.5 What is thickness of side wall sheet ?

- (a) 2 mm SSF. (b) 2.5 mm SSF
(c) 3 mm SSF (d) 4 mm SSF

(a) 2 mm SSF

Ques.6 Full name of LCWM ?

- (a) Laser cutting & welding machine (b) Laser cutting & work machine
(c) Local count & working machine (d) Level cutting and working machine

(a) Laser cutting & welding machine

Ques.7 How many Fiber laser cutting machine installed in sheet metal shop ?

- (a) 3 (b) 4 (c) 2 (d) 1

(d) 1

Ques.8 Which Gas to be used for SSA & SSF cutting in laser machine ?

- (a) O₂ (b) N₂
(c) N₂ or O₂ (d) CO₂

(b) N₂

Ques.9 What is stroke length of 800 Ton Hydraulic Press ?

- (a) 400 mm (b) 500 mm
(a) 300 mm (d) 200 mm

(b) 500 mm

Ques.10 How many 120 Ton Press Brake machine installed in Sheet Metal Shop ?

- (a) 2 (b) 3
(b) 1 (d) 4

(a) 2

Ques. 11 Full form of SBFM which is installed in Sheet Metal Shop ?

- (a) Stainless Forming Bending Machine (b) Stretch Bending Forming Machine
(b) Steel Form Bending Machine (d) None of these

(b) Stretch Bending Forming Machine

Ques. 12 Which type of material used in Sole bar ?

- (a) SSA (b) SSF
(b) Mild Steel (d) CS

(d) CS

Ques.13. Which type of thickness sheet used for LCWM Machine to make side wall skin sheet ?

- (a) 1.75 mm SSA (b) 2 mm SSF
(c) 2.5 mm SSF (d) 2 mm CS

(b) 2 mm SSF

Ques.14 What is minimum and maximum welding & cutting capacity of LCWM Machine ?

- (a) 0.8 to 3 mm SS (b) 0.5 to 2 mm SS
(c) 0.6 to 4 mm SS (d) 1.25 to 1.7 mm SS

(a) 0.8 to 3 mm SS

Ques. 15 Full form of FLCM ?

- (a) Fiber Laser Cutting Machine (b) Fiber Lead Cutting Machine
(c) Fine Laser Cutting Machine (d) None of these

(a) Fiber Laser Cutting Machine

Ques.16 Which machine is used for coil convert to sheet form ?

- (a) Sheet Cutting Machine (b) Slitter cum Cut to length Machine
(c) Coil Cutting Machine (d) Laser Cutting Machine

(b) Slitter cum Cut to length Machine

Quest.17. Which thickness of material used in Trough floor ?

- (a) 1.25 mm SSA (b) 2 mm SSF
(c) 1.75 mm SSA (d) 2 mm CS

(a) 1.25 mm SSA

Ques.18 Drilling capacity of Radial Drilling Machine for SS ?

- (a) 40 mm (b) 80 mm
(c) 70 mm (d)30 mm

(b) 80 mm

Ques.19 Which thickness of SSA material used in SMS ?

- (a) 1.25 & 1.7 mm SSA (b) 2 & 3 mm SSF
(c) 3 & 4 mm CS (d) None of the above

(a) 1.25 & 1.7 mm SSA

Ques.20. What is the full form of PSL?

- (a) Product system list (b) Product structure list
(c) Panel structure line (d) None of the above

(b) Product structure list

Ques. 21 No. of CNC Axis of Press Brake Machine installed in SMS ?

- (a) 5 (b) 4
(c) 3 (d) 2

(a) 5

Ques. 22 What Percentage of chromium in Austenitic steel is ?

- (a) 18-20% (b) 17 -19%
(c) 16 -26% (d) 18-19%

(c) 16 -26%

Ques. 23 What Percentage of Nickel in ferritic Steel is ?

- (a) 8% (b) 10%
(c) 9% (d) 7%

(a) 8%

Ques. 24 Material used in LHB coaches for trough floor and roof is ----- steel.

- (a) Austenitic Steel (b) Ferritic Steel
(c) Corton Steel (d) Mild Steel Steel

(a) Austenitic Steel

Ques. 25 Material used in LHB coaches for body pillar, sidewall sheet, carline and roof arch is

- (a) Austenitic Steel (b) Ferritic Steel
(c) Corton Steel (d) Mild Steel Steel

(b) Ferritic Steel

Ques. 26 Thickness of carline in LHB Coaches is

- (a) 3.5 mm SSF (b) 4 mm SSF
(c) 2 mm SSF (d) 2.5 mm SSF

(c) 2 mm SSF

Ques.27 What is the name of supplier of FLCM machine installed in MCF

- (a) Machine Tool India Pvt. Ltd. (b) Geeta Machine Tools Pvt. Ltd.
(c) Electro pneumatic & Hydraulic (India) Pvt. Ltd. (d) ABL Engineering Company India

(a) Machine Tool India Pvt. Ltd.

Ques.28 What is the cutting accuracy to FLCM machine?

- (a) ± 0.01 mm. (b) ± 0.25 mm.
(c) ± 1.0 mm. (d) ± 0.50 mm.

(b) ± 0.25 mm.

Ques. 29 Full form of UTS in terms of material ?

- (a) Unit Test Strength (b) Ultimate tensile Strength
(c) Unified Testing Service (d) Unique technical servis

(b) Ultimate tensile Strength

Ques30. Full form of CNC in terms of machine ?

- (a) Computer number Control
- (b) Compute Numeric Controlled
- (c) Computerized numerical controlled
- (d) Complete network Controlled

(c) Computerized numerical controlled

Ques. 31 Holes provided in all stiffeners of end wall because of ?

- (a) To minimise the cost of material
- (b) For electrical wiring
- (c) To reduce its weight
- (d) for safety purpose

(c) To reduce its weight

Ques. 32 Console is a part of

- (a) End wall
- (b) Under Frame
- (c) Side wall
- (d) Roof

(b) Under Frame

Ques. 33 Cant rail (Carline) is a part of

- (a) End wall
- (b) Under Frame
- (c) Side wall
- (d) Roof

(c) Side wall

Ques. 34Connected between under frame and bogie frame of LHB Coaches.

- (a) Yaw Damper
- (b) Y – absorber
- (c) U – Damper
- (d) Shock absorber

(a) Yaw Damper

Ques. 35 Laser Profile cutting is done by which machine?

- (a) Fiber laser cutting machine
- (b) Cut to length machine
- (c) Mechanical shearing Machine
- (d) CNC Centre Machine

(a) Fiber laser cutting machine

Ques.36 Which operation is not done by Multiple station Machine ?

- (a) Shearing
- (b) Punching
- (c) Notching
- (d) Drilling

(d) Drilling

Ques.37 Which one of the following is / are an integral part of CNC Press Brake Machine?

- (a) Die (b) Punch
(c) Akas laser angle measurement device (d) All of these

(c) Akas laser angle measurement device

Ques.38 Preventive maintenance and Break down of machine is done by which department?

- (a) Planning (b) Production
(c) Mechanical (d) Machinery and Plant

(d) Machinery and Plant

Ques.39 Which one of the following is / are an integral part of CNC Press Brake Machine?

- (a) Finger (b) Display Board
(c) Paddle (d) All of these

(d) All of these

Ques.40 Forming of modules & Side wall arch takes place in which Machine?

- (a) 800 Ton Hydraulic Press (b) 800 Ton Press Brake
(c) CNC Folding Machine (d) Multiple Station machine

(a) 800 Ton Hydraulic Press

Ques.41 Material handling is done by?

- (a) Electrical vacuum lifter (b) Hand pallet truck
(c) Battery platform vehicle (d) All of these

(d) All of these

Ques.42 Holes in cross member of under frame is due to

- (a) To reduce weight (b) To minimise the cost
(c) To provide strength under frame (d) All of these

(a) To reduce weight

Ques.43 Full form of SWL in terms of EOT Crane?

- (a) Service work line (b) Safe work load
(c) Sequencing working line (d) None of these

(b) Safe work load

Ques.44 Making of side wall skin sheet is done by...

- (a) Fiber Laser Cutting Machine
 - (b) Laser cutting and welding machine
 - (c) Laser cutting machine
 - (d) Cut to length Machine
- (b) Laser cutting and welding machine**

Ques. 45 What is the benefit of proper clearance of Shearing Machine blade?

- (a) To increase shearing blade life
 - (b) Minimise corrosion
 - (c) For easy operation
 - (d) None of these
- (a) To increase shearing blade life**

Ques.46 What is the advantage of NC & CNC Machine ?

- (a) Reduced manufacturing lead time (MLT) repeatability
 - (b) Higher accuracy and repeatability
 - (c) Higher production rate
 - (d) All of these
- (d) All of these**

Ques.47 Rack Angle used in which type of Machine ?

- (a) Shearing Machine
 - (b) Laser Machine
 - (c) Press Brake Machine
 - (d) Multiple station Machine
- (a) Shearing Machine**

Ques.48 Nibbling operation is done by....

- (a) Shearing Machine
 - (b) Laser Machine
 - (c) Press Brake Machine
 - (d) Multiple station Machine
- (d) Multiple station Machine**

Ques. 49 Gases used in gas cutting process ?

- (a) O₂ and N₂
 - (b) O₂ and CO₂
 - (c) O₂ and C₂H₂
 - (d) N₂ and CO₂
- (c) O₂ and C₂H₂**

Ques. 50.To make a small indentation (centre hole) in sheet metal, a ----- is used.

- (a) Pencil
 - (b) Centre Punch
 - (c) Needle
 - (d) Scribber
- (b) Centre Punch**

Ques. 51 To bend the sheet metal by 180 degree a ----- is used.

- (a) Carpenter's Hammer
- (b) Ball peen Hammer
- (c) Mallet
- (d) Sledge Hammer

(c) Mallet

Ques. 52 One centimetre is equivalent to

- (a) 10 mm
- (b) 1 mm
- (c) 0.1 mm
- (d) 100 mm

(a) 10 mm

Ques. 53 Internal screw threads are cut by hand using.

- (a) Twist Drills
- (b) Dies
- (c) Chisel
- (d) Taps

(d) Taps

Ques. 54 The speed of a drill machine depends on

- (a) The size of the work
- (b) The diameter of the hole required
- (c) The length of the drill being used
- (d) The shape of the hole required

(b) The diameter of the hole required

Ques. 55 External screw threads are cut by hand using

- (a) Twist drills.
- (b) Dies.
- (c) Chisels.
- (d) Taps.

(b) Dies

Ques. 56 A-----Machine is used to cut small pieces of sheet metal.

- (a). Bending
- (b) Welding
- (c) Notching
- (d) Drilling

(c) Notching

Ques. 57 Galvanised iron sheets are coated with _____.

- (a) Tin
- (b) Copper
- (c) nickel
- (d) Zinc

(d) Zinc

Ques. 58 Industrial safety management is that branch of management which is concerned with _____ hazards from the industries.

- (a) Reducing (b) Controlling
(c) Eliminating (d) All of the above

(d) All of the above

Ques. 59 The following is indirect cost of accident.

- (a) Money paid for treatment of worker (b) Compensation paid to worker
(c) Cost of lost time of injured worker (d) All of the above

(c) Cost of lost time of injured worker

Ques. 60 The following is (are) physical hazard agent (s)

- (a) Falls (b) Electricity
(c) Inhalation (d) All of the above

(d) All of the above

Ques. 61 Check list for job Safety Analysis (JSA) consists of.

- (a) Work area, material, machine, tools (b) Men, Machine, material, tools
(c) Men, machine, work area, tools (d) Men, work area, Material, tools

(a) Work area, material, machine, tools

Ques. 62 Decibel (DB) is a unit to measure

- (a) Light (b) Sound
(c) Frequency (d) None of the above

(b) Sound

Ques. 63 Water is used to extinguish

- (a) Class –A fires (b) Class – B fires
(c) Class – C fires (d) All of the above

(a) Class –A fires

Ques. 64 The following class of fire occurs in electrical equipment.

- (a) Class –A fires (b) Class – B fires
(c) Class – C fires (d) All of the above

(c) Class –C fires

Ques. 65 The following extinguisher is suitable for cotton or other textile fire

- (a) Water
- (b) Soda acid
- (c) Foam
- (d) Dry chemicals

(a) Dry chemicals

Ques. 66 _____ is best suited to extinguishing oil or flammable liquid fire.

- (a) Soda acid
- (b) Vaporising liquid
- (c) Foam
- (d) Dry chemical

(c) Foam