

From: Dy. CEE/Production
S.No. & Date: 4502/05.10.21

Modern Coach Factory, Raebareli
Electrical Production

No. Dy.CEE/P/MCF/RBL/Corres. /MCQ

Date: 28.09.2021

Secy. To PCME

Dy. CEE 28/9/21

Sub: Preparation of sample question bank

Ref: - 1. Secy. To PCME letter no. MCF/RBL/PCME/12281, vol-II dated 25.09.2021

Vide ref. above, as desired a set of sample question bank containing 50 MCQ is being forwarded for your kind information and necessary action please.

Dy. CEE/Production
MCF/RBL

CME/P

Ashish
28.9.21

~~Principal /rre~~

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for ya pls.
Shivam
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Q. No.	Question	Answer
1.	How many volts are supplied to LHB coaches? a. 230 volts b. 415 volt 3 phase c. 750 volt 3 phase d. 1500 volt 3 phase	C
2.	How many feeders are supplied Power to LHB coaches? a. 1 b. 2 c. 3 d. 4	B
3.	What is the Coil Voltage of the Main feeder contactor in the LHB AC coach? a. 110 V DC b. 110 V AC c. 230 V AC d. 415 V AC	D
4.	What is the capacity of the step-down transformer provided in the coaches? a. 100 kVA b. 75 kVA c. 60 kVA d. 50 kVA	C
5.	What is the full form of WRA? a. Wire relay appliances b. Water raising apparatus c. Worker relief arrangement	B
6.	Which type of Motor is used in mono-block centrifugal type WRA? a. DC b. AC c. A & B d. None	B
7.	Which Refrigerant is used? a. R 11 b. R 12 c. R 22, R407 C d. R 32	C
8.	What is the Voltage rating & type of Battery used in LHB AC coaches? a. 1100 AH' VRLA b. 320 AH' VRLA c. 120 AH' VRLA d. 70 AH' VRLA	D
9.	What is the type of Toilet exhaust fans used in the LHB AC coach? a. Single inlet centrifugal type b. Double inlet centrifugal type c. Radial type d. None	B
10.	What is the full form of VRLA? a. Valve Regulated Lead Acid Cell b. Valve released lead Acid Cell c. Valve Regulated Low Acid Cell d. None of the above	A
11.	How many Power Transformers provided in the power car? a. 1 b. 2 c. 3 d. 4	C
12.	What is the meaning of an HV? a. High voltage b. Heavy voltage c. Both A & B d. None of the above -	A
13.	Which color is adopted for the wiring of fan negative cable in LHB Non-AC coaches? a. RED b. YELLOW c. BLUE d. BLACK	D
14.	Which is the main feeder contactor for feeder 1? a. K 01 b. K 02 c. Both A & B d. None of the above	A
15.	The resistance of a diode is equal to (a) Ohmic resistance of the P- and N- semiconductors (b) Junction resistance (c) Reverse resistance (d) Algebraic sum of (a) and (b) above	D
16.	At room temperature of 25 °C, the barrier potential for silicon is 0.7 V. its value at 125° C is (a) 0.5V (b) 0.3V (c) 0.9V (d) 0.7V	A
17.	The Forbidden Energy gap for Silicon is (a) 1.12eV (b) 0.32 eV (c) 0.72 eV (d) 0.71 ev	D
18.	Which of the following is not a semiconductor	B

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	(a) Gallium Arsenide (b) Indium (c) Germanium (d) Silicon	
19	The Breakdown that occurs in the Reverse biased condition in a narrow junction Diode is (a) Zener Breakdown (b) Avalanche Breakdown (c) Both a & b (d) None of these	A
20	In a semiconductor diode, V-I relationship is such that a) current varies linearly with voltage b) current varies exponentially with voltage c) current varies inversely with voltage d) none of these	B
21	Slip ring Induction Motor is having A) High Starting Torque B) Low Starting Torque C) Both A & B D) None of these	A
22	Three Phase Slip ring Induction motor rotor is having A) Three phase winding B) Single Phase winding C) Two Phase winding D) None of these	A
23	Core Losses are A) Hysteresis loss B) Eddy Current Loss C) Both A & B D) None of these	C
24	What is the value of frequency when $N_s = 1000$ RPM, $P = 6$ A) 30Hz B) 40Hz C) 50Hz D) 60Hz	C
25	Resistivity of a wire depends on (A) length (B) material (C) cross section area (D) All of the above.	B
26	Ohm's law is not applicable to (A) DC circuits (B) high currents (C) small resistors (D) semi-conductors.	D
27	A wire of resistance R has its length and cross-section both doubled. Its resistance will become (A) 4R (B) 2R (C) R (D) R/4.	C
28	Thevenin's theorem can be applied to network containing (A) Passive elements only (B) Active elements only (C) Linear	D

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	elements only (D) All of these	
29	An ideal voltage source should have: (A) Zero source resistance (B) Infinite source resistance (C) Terminal voltage is proportional to current (D) Open-circuit voltage nearly equal to voltage of the load current	A
30.	The polarity of the induced voltage is determined by ; (A) Ampere's law (B) Lenz's law (C) Kirchhoff's law (D) Right hand rule	B
31	A Material having a charge of 12 coulombs over 6 second what is current flowing through the material A) 3 AMPS B) 2AMPS C) 4 AMPS D) 10AMPS	B
32	A Loop in a Circuit is defined as a a) Closed path b) Junction point of two or more branches c) inter connected elements d) All of these	A
33	The phase angle difference between current and voltage is 90° , the power will be A) zero B) maximum C) minimum D) VI	A
34	How many cycles does a sine wave go through in 10s when its frequency is 60HZ (A) 10 cycles (B) 60 cycles (C) 600 cycles (D) 6 cycles	C
35	The Apparent Power Drawn By An A.C. Circuit Is 10 Kva And Active Power Is 8 Kw. The Reactive Power In The Circuit Is (A) 4 Kvar (B) 6 Kvar (C) 8 Kvar (D) 16 Kvar	B
36	The Power Factor Of A D.C. Circuit Is Always (A) Less Than Unity (B) Unity (C) Greater Than Unity (D) Zero	D

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37	The transformer is a converting device A) Voltage B) current C) frequency D) power	A
38	The rating of transformer may be expressed in A) kW B) KVA C) Horse power D) KVAR	B
39	The voltage regulation of a transformer at full-load 0.8 power factor lag is 6 per cent. Its voltage regulation at full-load 0.8 power factor lead will be A) Zero B) Positive C) 54% D) Negative	D
40	A notch filter is a (A) Wide band pass filter. (B) Narrow band pass filter. (C) Wide band reject filter. (D) Narrow band reject filter.	D
41	The fastest switching logic family is (A) CMOS. (B) TTL. (C) DTL. (D) ECL.	D
42	Brass is an alloy of (A) copper and zinc. (B) Copper and iron. (C) copper and Aluminum. (D) Copper and tin.	A
43	In n type semi conductor added impurity is (A) Pentavalent. (B) Divalent. (C) Tetravalent. (D) Trivalent.	A
44	Gold and silver are (A) dielectric materials (B) low resistivity conducting materials. (C) Magnetic materials. (D) Insulating materials.	B
45	The percentage of carbon in mild steel is (A) 0.08 to 0.3 % (B) 0.5 to 1.4 % (D) 2.35 % (D) 0.5 %	A
46	Number of Terminals in a MOSFET are (A) Two (B) Three (C) Four (D) Five	B
47	The heating elements of electric irons are made of (A) Copper. (B) Nichrome. (C) Constantan. (D) Aluminum.	B
48	Aluminum is (A) Silvery white in colour. (B) Yellow in colour.	A

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	(C) Reddish in colour. (D) Pale yellow in colour.	
49	The conductivity of an extrinsic semiconductor (A) decreases with temperature. (B) Increases with temperature. (C) remains constant with temperature. (D) Decreases and then increases with temperature.	B
50.	Tick off the material, which is different from the group (A) Constantan. (B) Manganin. (C) Nichrome. (D) Brass.	D

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