

कार्यालय
महा प्रबंधक (इंजीनियरिंग)
पूर्वोत्तर रेलवे,
गोरखपुर-273012



Office of The
General Manager
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स०-डब्लू/563/टीएमसी/विविध/4ए

दिनांक 10.08.2022

महाप्रबंधक कार्मिक
पूर्वोत्तर रेलवे,
गोरखपुर।

विषय:- टीएमसी संगठन में 25 प्रतिशत एलडीसीई कोटा के तहत हेल्पर, लेवल-1, ग्रेड पे-1800 से टेक्नी0-111/टीएमसी लेवल-2 ग्रेड पे-1900 में चयन हेतु अधिसूचना जारी करने से पूर्व 200 बहुविकल्पीय प्रश्नों की श्रृंखला पूर्वोत्तर रेलवे की वेबसाईट पर अपलोड करने के सम्बंध में।

संदर्भ:-महाप्रबंधक/कार्मिक पत्र सं० NER-HQOPER(ESTB)/12/2021 दिनांक 06.07.2022

संदर्भित पत्र के अनुसार 200 बहुविकल्पीय प्रश्नों की श्रृंखला पूर्वोत्तर रेलवे की वेबसाईट पर अपलोड करने हेतु प्रेषित की जा रही है।

Jainendra
10/8/2022
उप मुख्य इंजी०/टीएमसी

01. What is the function of Tamping Units-
- (i) To pack ballast under sleeper (ii) To lift track & pack ballast
(iii) Slewing of track (iv) none of these
02. In single sleeper packing machine, number of tool provided-
- (i) 16 Nos. (ii) 32 Nos. (iii) 12 Nos. (iv) 8 Nos.
03. In point & x-ing machine, number of tamping tools provided-
- (i) 16 Nos. (ii) 32 Nos. (iii) 48 Nos. (iv) 8 Nos.
04. In point & X-ing machine following types of tamping tools is required-
- (i) Two type (ii) One Type (iii) Three type (iv) None of these
05. Recommended oil for lubrication of tamping arm centre pin assembly radial seal is-
- (i) SS-68 (ii) SS-100 (iii) SS-150 (iv) SAE C-90
06. Number of Tamping Tools provided in CSM& Duomatic -
- (i) 32 Nos. (ii) 16 Nos. (iii) 48 Nos. (iv) 8 Nos.
07. Number of tamping tools are provided in 09-3X Machine-
- (i) 32 Nos. (ii) 16 Nos. (iii) 48 Nos. (iv) 8 Nos.
08. In 09-3X number of tamping unit fitted--
- (i) 2 Nos. (ii) 1 No. (iii) 3 Nos (iv) 4 Nos.
09. In Unimat -4S machine tamping units are in-
- (i) 4 Parts (ii) Two Parts (iii) One piece (iv) None of the above
10. In one tamping Unit on UNO/DUO/CSM/Unimat-2S & 3Svibration shaft is required.
- (i) 1 (ii) 2 (iii) 3 (iv) 4
11. Number of tamping arms provided in 09-3X-
- (i) 6 Nos (ii) 12 Nos (iii) 8 Nos (iv) 4 Nos
12. Number of tamping arms in one tamping unit of DUO/CSM Machine is-
- (i) 4 (ii) 6 (iii) 8 (iv) 12
13. Number of tamping arms in single sleeper packing machine i.e. UNO & Unimat is-
- (i) 4 (ii) 6 (iii) 8 (iv) 12
14. Hooks are used to lift the track.....tamping machine
- (i) In point & X-ing (ii) In plain track (iii) Both i&ii (iv) None of the above
15. Disc clamp rollers are used to lift the track in.....
- (i) all tampers (ii) point&x-ing tamping machine (iii) plain track tamper (iv) None of the above
16. Disc clamp roller rotates in the lever clamp body with the help of-

- (i) Threads (ii) Bearing or Teflon bushes (iii) Both i&ii (iv) None of the above
- 17 .How many lining cylinders are used in lifting unit -
 (i) One (ii) Two (iii) Three (iv) None of these
- 18 .How many track lifting cylinders are used in lifting unit -
 (i) One (ii) Two (iii) Three (iv) None of these
- 19 .How many disc clamp rollers are used in UNIMAT Machine–
 (i) 2 Nos. (ii) 4 Nos. (iii) 8 Nos. (iv) None of these
- 20.How many disc clamp rollers are used in plain track tampers–
 (i) 2 Nos. (ii) 4 Nos. (iii) 8 Nos. (iv) None of these
- 21 .How many hooks are used in point &-x-ing tamping machine-
 (i) 1 No. (ii) 2 Nos. (iii) 8 Nos. (iv) None of these
- 22 .Third Rail lifting arrangement is given in-
 (i) Unimat- 2S only(ii) Unimat- 2S, 3S, & 4S (iii) Unimat-3S & 4S only (iv) None of these
- 23.How many engines are provided on BCM-
 (i) 01 No. (ii) 02 Nos. (iii) 03 Nos. (iv) None of the above
- 24.What is the type of engine provided on BCM-
 (i) Cummins (ii) Deutz (iii) MWM (iv) None of the above
25. How many types of conveyor belts are provided on BCM-
 (i) One type (ii) Two type (iii) Three type (iv) None of the above
26. Cleaned ballast is put into the track through.....conveyor belt.
 (i) Main (ii) Distribution (iii) Waste (iv) None of the above
- 27.How many shovels are provided on BCM RM-80-
 (i) 82 (ii) 90 (iii) 70 (iv) None of the above
- 28.The lubricant used in axle of BCM is-
 (i) Hydraulic Oil (ii) Gear Oil (iii) Mobile Oil (iv) None of the above
- 29.The engine oil used for lubrication is -
 (i) 15W40 (ii) Ultra-10 (iii) SS-100 (iv) None of the above
- 30.The amount of hydraulic oil used in BCM axle is.....ltr.
 (i) 30 (ii) 45 (iii)20 (iv) None of the above
- 31.How many maintenance schedules are there in Duomatic machine-
 (i) 7 (ii) 4 (iii) 5 (iv) None of the above
- 32.What is the schedule for change of oil of Z.F. Gear box.-

- (i) 250hrs (ii) 500hrs (iii) 750hrs (iv) 1000hrs
33. Schedule-I is done for UNO/DUO machine in-
(i) 1hr (ii) 2hrs (iii) 5hrs (iv) None of the above
34. 50 hrs schedule-II is done for UNO/DUO machines in-
(i) 1hr (ii) 2hrs (iii) 5hrs (iv) None of the above
35. Schedule-III for 09-CSM/09-3X machine is done at-
(i) 100hrs (ii) 200hrs (iii) 500hrs (iv) None of the above
36. Schedule-IV for 09-CSM/09-3X machine is done at-
(i) 200hrs (ii) 500hrs (iii) 1000hrs (iv) None of the above
37. Schedule-V for 09-CSM/09-3X machine is done at-
(i) 1000hrs (ii) 5000hrs (iii) 1000hrs (iv) None of the above
38. Schedule-I for BCM is done by-
(i) 1hr (ii) 2hrs (iii) 3hrs (iv) None of the above
39. IOH of machine is done at-
(i) 1000hrs (ii) 2000hrs (iii) 4000hrs (iv) None of the above
40. 1st POH of machine is done at--
(i) 8000hrs (ii) 2000hrs (iii) 4000hrs (iv) None of the above
41. IOH of DUO machine is completed by.....days.
(i) 45 (ii) 60 (iii) 90 (iv) None of the above
42. 1st POH of BCM machine is completed by.....days.
(i) 45 (ii) 60 (iii) 90 (iv) None of the above
43. Schedule-IV for PQRS is done at-
(i) 45 days (ii) 60days (iii) 90 days (iv) None of the above
44. Schedule-VI for BCM is done at-
(i) 45 days (ii) 90days (iii) 120 days (iv) None of the above
45. Satellite is a part of following machine-
(i) Duomatic (ii) CSM (iii) BCM (iv) None of the above.
46. Following assemblies are mounted on satellite of CSM - (i)tamping unit & lifting-lining unit(ii) only tamping unit(iii)only lifting unit(iv) None of the above
- 47.No. of satellite unit on CSM machine-

59. Ammeter is used in circuit to measure the current:
(a) In series (b) In parallel (c) Both (d) None
60. What is the unit of Inductance?
(a) Henry (b) Farad (iii) Ohm (iv) Ampere
61. Which voltage is step up or step down by transformer -
(a) AC Voltage (b) DC Voltage (c) Both (d) None.
62. If coil is short circuited what is reading of ohm meter-
(a) Infinite resistance (b) Zero resistance (c) $100M\Omega$ (d) 100Ω
63. Cell converts:-
(a) Mechanical energy to electrical energy (b) Chemical energy to electrical energy
(c) Electrical energy to Chemical energy (d) None
64. Battery gives-
(a) DC voltage (b) AC Voltage (c) Both (d) None
65. Electrolyte is a mixture of-
(a) H_2SO_4 and H_2O (b) HCL and H_2O (c) $Pb + H_2O$ (d) $H_2O + PbO_2$
66. Positive terminal of lead Acid Cell is-
(a) PbO_2 (b) Pb (c) $PbSO_4$ (d) None
67. Dry Cell is a-
(a) Primary Cell (b) Secondary Cell (c) Both (d) None
68. Lead Acid Cell is a-
(a) Primary Cell (b) Secondary Cell (c) Both (d) None
69. What is the unit of battery capacity.
(a) Ampere Hour (b) Watt hour (c) Ampere Meter (d) Kilowatt Hour
70. Specific gravity is measured by-
(a) Hydrometer (b) Hygrometer (c) Energy Meter (d) Speedometer
71. How many cells in one battery in track machines-
(a) 8 (b) 6 (c) 12 (d) 5
72. How many battery in UN-3S machine-
(a) 2 (b) 3 (c) 4 (d) 1

73. During charging more than one battery is connected-

- (a) In parallel (b) In series (c) Both (d) None

74. Battery is charged by -

- (a) AC Voltage (b) DC Voltage (c) Both (d) None

75. What is the capacity of programmer battery in 09-3X machine -

- (a) 180AH/25P (b) 200AH/27P (c) 70AH/13P (d) 150AH/21P

76. Alternator converts.....-

- (a) Electrical energy to mechanical energy (b) Mechanical Energy to Electrical energy
(c) Mechanical Energy to Chemical Energy (d) None

77. Alternator initially generates-

- (a) A.C. Voltage (b) D.C. Voltage (c) Both (d) None

78. What is the output of alternator

- (a) 24V dc (b) 12V dc (c) 27V to 28V dc (d) 32V dc

79 How many alternators used in 09-3X machines-

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

80 Alternator works on-

- (a) Self Induction (b) Mutual induction (c) Both (d) None

81 What is the current rating of Alternator of New Duomatic Machine -

- (a) 45A (b) 55A (c) 120A (d) 110A

82 What is the current rating of RM-80 92U machine -

- (a) 120A (b) 140A (c) 55A (d) 110A

83 How many number of alternator in FRM 80 machine-

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

84 What is the position of warning lamp during charging of battery -

- (a) ON position (b) OFF position (c) Flickering position (d) None

85. Self Starter converts-

- (a) Electrical energy to mechanical energy (b) Mechanical Energy to Electrical energy
(c) Chemical energy to Electrical energy (d) None

86. Self Starter used in machine having-

- (a) 12V (b) 24v (c) 6v (d) 18V

87. Relay is a-

(a) Electrical switch (b) Mechanical switch (c) Hydraulic Switch (d) Pneumatic Switch

88. In CSM Engine Circuit. How many numbers of stopper switch is provided.

(a) 5 (b) 8 (c) 7 (d) 4

89. Ignition key in CSM in

(a) Front cabin (b) Working cabin (c) B13 Panel (d) None

90 What is the function of bypass switch in CSM machine.

(a) To bypass shutdown coil (b) To switch OFF Engine(c) To by pass pressure switch (d) None

91. What will happen in engine if by pass switch is released before coming lube oil pressure

(a) Engine will not shutdown (b) Engine will shutdown(c) Engine will overheat (d) none

92. How many numbers of solenoids for clutch operation in Z.F. Gear Box

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

93. If break pressure is 3 and more what will happen in Z.F. Gear Box -

(a) Z.F. will Neutral (b) Z.F. will not Neutral
(c) Z.F. Gear will be damage (d) No any action

94. Transducer converts-

(a) Electrical energy to mechanical energy (b) Mechanical energy to electrical energy
(c) chemical energy to mechanical energy (d) None of these

95. How many tamping depth transducer in 09-3X machine-

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

96. How many tamping depth transducer in UNI-4S

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

97. Hook transducer is used in-

(a) UNIMAT (b) CSM (c) Duomatic (d) 09-3X

98. Pendulum converts-

(a) Cross level error to electrical signal (b) Slew value to electrical signal
(c) Versine values to electrical signal (d) none of these.

99. How many pendulums in 09-CSM machine-

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

100 How many pendulums in 09-3X machine-

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

101 How many potentiometers in pendulum PCB-

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

102 Height transducer converts-

(a) Longitudinal level to electrical signal (b) Cross level to electrical signal
(c) Versine to electrical signal (d) None of these

103. How many numbers of height transducers in tamping machines-
(a) 3 (b) 4 (c) 2 (d) 1

104. In which machine encoder is not used-
(a) UNIMAT (b) CSM (c) 09-3X (d) DGS

105. In which machine, Microprocessor based system is not used-
(a) Unomatic (b) UNIMAT (c) CSM (d) DGS

106. PCB calculates-
(a) Back time (b) Track parameter (c) Track error (d) None

107. Full form of Ic is -
(a) Internal combustion (b) Industrial control (c) Integrated Circuit (d) Indian Culture

108. How many programmer PCBs are provided in CSM.....
(a) 1No (b) 2Nos (c) 3Nos (d) 4Nos

109. Tamping control PCB controls.....
(a) Tamping depth (b) Lowering speed (c) Lifting speed (d) All a,b,c

110. How many Tamping control PCB used in CSM.....
(a) 1 (b) 2 (c) 3 (d) 4

111. Zero depth of Tamping Tools are set..... below rail Head
(a) 20-25mm (b) 10-15 mm (c) 15-30mm (d) 0-10mm

112. How many Lining control PCB used in CSM/Duomatic.....
(a) 1 (b) 2 (c) 3 (d) 4

113. How many Satellite control PCBs are used in CSM.....
(a) 1 (b) 2 (c) 3 (d) 4

114. How many Satellite control PCBs are used in 09-3X.....
(a) 4 (b) 3 (c) 2 (d) 1

115. How many Satellite transducer(s) is/ are used in CSM/09-3X.....
(a) 1 (b) 2 (c) 3 (d) 4

116. How many Work drive PCBs are used in CSM.....
(a) 1 (b) 2 (c) 3 (d) 4

118 How many Work drive PCBs are used in 09-3X.....
(a) 4 (b) 3 (c) 2 (d) 1

119. Hooks are used in-

(a) MPT (b) UNIMAT (c) WST (d) Both (a) & (b)

120 Hook control circuit are used-

(a) To control the movement of clamp (b) To control the depth of hook (c) To control the depth of Taming Unit (d) None

121. Hook can be applied to lift the rail on-

(a) Rail head only (b) Rail foot only (c) Both (d) None

122. How many No. of hook transducer in UNIMAT-4S

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

123. A push or pull applied against an object to move, it is called a.....:

(a) Force (b) Pressure (c) Torque (d) Displacement

124 A hydraulic fluid must have enough force to do work of the system & overcome..... in the system:

(a) Pressure (b) Resistance (c) Weight (d) None of these

125 The.....determines how much force is required to start, stop or cause a change in the movement of an object.

(a) Pressure (b) Weight (c) Inertia (d) Mass

01.04 The..... of a liquid is determined by comparing the weight of the fluid to the weight of an equal amount of water.

(a) Pressure (b) Force (c) Specific Gravity (d) None of these

126is the amount of force exerted on an object divided by the area over which the force is exerted.

(a) Pressure (b) Hydraulic Force (c) Torque (d) None of these

127takes place when a force is moved through a distance.

(a) Power (b) Work (c) Acceleration (d) None of these

128 Power is defined as an amount ofdone in a given amount of time.

(a) Force (b) Displacement (c) Work (d) None of these

129 If a force of 1000kg is exerted against a piston having an area of 50cm², the resulting pressure is.....Kg/cm²

(a) 10Kg/cm² (b) 20Kg/cm² (c) 50000Kg/cm² (d) 200Kg/cm²

130 The ideal flow in a pipe is called-

(a) Laminar (b) Turbulence (c) Both 'a' & 'b' (d) None of these

131. The relationship between Force, Pressure, Area-

(a) $F = P \times A$ (b) $P = F \times A$ (c) $A = F \times P$ (d) None

132.....is the measure of the fluid's resistance to flow or an inverse measure of fluidity.

(a) Viscosity (b) Force (c) Temperature (d) Pressure

133.in the lowest temperature at which a fluid will flow-

- (a) Flash point (b) Fire point (c) Pour point (d) None

134 A hydraulic fluid must also act as abetween the contacting surfaces of the components.-

- (a) Lubricant (b) Sealing agent (c) Cooling agent (d) None

135 The viscosity of a fluid measures its.....friction-

- (a) External (b) Internal (c) both (d) None of these

136Corrosion in a hydraulic system is generally caused by-

- (a) Acids (b) Alkalis (c) Oxidation (d) All of the above.

137What are hydraulic fluids required to do?

- (a) Lubricate (b) Remain Incompressible (c) Transmit Power (d) All of the above

138Hydraulic tank in cleaned at-

- (a) 200hrs (b) 500hrs (c) 1000hrs (d) IOH

139Filter is.....than strainer.

- (a) Finer (b) Coarser (c) Either (a) & (b) (d) None

140. Pressure line & return line filters are replaced at every-

- (a) 1000hrs (b) 100hrs (c) 200hrs (d) 500hrs

141 Suction filter is replaced at-

- (a) 50hrs (b) 100hrs (c) 200hrs (d) 500hrs

142When selecting a pipe for hydraulic lines always make sure it will withstand the system.....

- (a) Flow (b) Pressure (c) Force (d) None

143Bursting pressure of hose is kepttimes the working pressure.

- (a) Same (b) 2 (c) 4 (d) 8

144. Flexible hose is used when the hydraulic lines are subjected to.....

- (a) Movement (b) Fixed (c) Both (d) None

145 Higher pressure is permitted in.....wire braided hose.

- (a) single (b) double (c) Both a & b (d) None

146 SAE 100R₂ standard is applicable for.....hose.

- (a) Suction (b) Pressure (c) Return (d) Leakage line

147The I.D. of a flexible hose in inch is generally given by(

- a) Pipe no./4 (b) Pipe no./8 (c) Pipe no./12 (d) Pipe no./16

148. Hydraulic hose & fittings are either the crimp (permanent) or.....types.

- (a) Reusable (b) welded (c) brazed (d) none

149. The seal used in D.C. Valve is.....
 (a) Positive (b) Non positive (c) Dynamic (d) Static
150. A hydraulic pump converts.....energy into.....energy.
 (a) Mechanical, Hydraulic (b) Hydraulic, Mechanical(c) Hydraulic, Electromechanical (d) None
151. The capacity of a pump can be specified by which of the following.
 (a) Gallons per minutes (b) Cubic centimeter per revolution(c) Litre per minute (d) All of the above.
152. The pumps in a hydraulic system, creates-
 (a) Fluid pressure (b) Fluid flow (c) Flow resistance (d) All of the above
153. Charge pump pressure is set at-
 (a) 30 bar (b) 110 bar (c) 210 bar (d) 380 bar
154. Pump does not give flow due to.....-
 (a) Direction of rotation is wrong (b) Pump shaft broken (c) Both a & b (d) None
155. Pressure control valves are used to control fluidand.....
 (a) Flow & pressure (b) Force & pressure (c) Speed & Pressure (d) None
- 156 Relief valves normally remain in..... position
 (a) Opened (b) closed (c) either 'a' or 'b' (d) None
- 157 Safety valve is set.....than the setting of unloading valve.
 (a) Less (b) Equal (c) More (d) None.
- 158is provided in accumulator charging circuit-
 (a) Relief valve (b) Unloader valve (c) Pressure reducing valve (d) Sequence valve
- 159Acan start, stop or change direction of fluid flow.
 (a) Directional control valve (b) Pressure control valve(c) Flow control valve (d) Pump
160. D.C. valves are operated by.
 (a) Solenoid (b) Manually (c) Hydraulic power (d) All of the above
- 161.....control & vary pressure, flow direction, acceleration & deceleration-
 (a) Proportional valve (b) Relief valve (c) D.C. Valve (d) Flow control valve
- 162.....is used to operate tamping unit UP/DN cylinder and satellite drive motor-
 (a) D. C. Valve (b) Servo Valve (c) Proportional Valve (d) Flow valve control
- 163is used to pass neat & Clean oil to pilot stage of proportional valve-
 (a) Suction filter (b) Return Filter (c) Servo filter (d) Proportional Filter
164. Servo valves are used for.....-
 (a) Tamping unit lifting lowering (b) Track lifting-lining (c) Rail clamp (d) Work drive
- 165.....filters are used for all the three servo valves used in track lifting-lining in tamping

machines-

(a) Servo (b) Proportional (c) Return line (d) Suction line

166. Before the fitment of..... flushing must be done.

(a) Servo filter (b) Proportional filter (c) Return filter (d) None

167. Flow control valves are used to control the..... of actuator.

(a) Pressure (b) Direction (c) Speed (d) None

168. Anstores hydraulic fluid to maintain pressure in the circuit.

(a) Accumulator (b) Pump (c) Relief valve (d) None

169 When charging a bladder accumulator charge theside first.

(a) Oil (b) Gas (c) both a&b (d) None

170 The type of gas charged accumulator used in tamping machine-

(a) Bladder (b) Diaphragm (c) Both a&b (d) None

171 Function of an accumulator in a hydraulic circuit is-

(a) To compensate leakage loss (b) Absorb hydraulic shocks(c) Supply fluid on demand (d) All of the above

172. The actuating device used to convert fluid pressure into straight line mechanical force is-

(a) Cylinder (b) Motor (c) Pump (d) None

173. A cylinder in which power strokes is in only one direction is -

(a) Single acting cylinder (b) Double acting cylinder(c) Double rod cylinder (d) None

174is operated by hydraulic fluid in both directions.

(a) Single acting cylinder (b) Double acting cylinder(c) both a& b (d) None

175 Double rod cylinder has.....piston &.....rods-

(a) 2, 3 (b) 1, 1 (c) 1, 2 (d) 2, 2

176. Track lifting cylinder in tamping machine is a-

(a) Single acting cylinder. (b) Double acting cylinder.(c) Double rod cylinder. (d) None

177.is used in lining device in BCMS.-

(a) Single acting cylinder. (b) Double rod cylinder. (c) Ram type cylinder. (d) None

178. Hydraulic motors convert the..... energy into.....energy.

(a) Mechanical, Hydraulic (b) Hydraulic, Mechanical(c) Hydraulic, Pneumatic (d) None

179. Hydraulic motor isactuator-

(a) Linear. (b) Rotary (c) Both (a) & (b). (d) None

180. Hydraulic motor may be.....-

(a) Unidirectional (b) Bidirectional (c) Variable (d) All of the above

181. In Track Machines..... is used to cool the hydraulic oil-

(a) Air cooler (b) Water cooler (c) Heater (d) None

182. These are..... ..Hyd. oil coolers provided in 09-CSM, 08-275-3S, 08 DUO-

(a) 2 . (b) 3 (c) 4 (d) none

183. A system that uses a gas/air for transmitting force is called a.....system-

(a) Hydraulic (b) Pneumatic (c) None (d) Both 'a' & 'b'

184. The pneumatic energy is produced by the.....

(a) Hydraulic pump (b) Compressor (c) Both 'a' & 'b' (d) None

185. Following componentconsist a square symbol-

(a) Water separator (b) Air dryer (c) Air-oiler (d) All of the above

186 Pneumatic power is used in.....-

(a) Chord tension (b) Application of datum(c) Application of brakes (d) All of the above

187Engine rpm is raised bypower-

(a) Pneumatic (b) Hydraulic (c) both 'a' & 'b' (d) None

188 Tamping unit & lifting unit is locked/unlocked by.....power-

(a) Hydraulic (b) Pneumatic (c) both 'a' or 'b' (d) Mechanical

189The greasing in corner rollers on BCM is done by.....operated pump

(a) Electrical (b) Hydraulic (c) Pneumatic (d) None

190 Pneumatic power is used for application of.....-

(a) Horn (b) Clapper cylinder (c) both 'a' & 'b' (d) None

191The cooling of compressor is done by the use of-

(a) Air (b) Water (c) Both 'a' or 'b' (d) None

192. The prime mover for the compressor is.....in track machine-

(a) Hydraulic pump (b) Electrical motor (c) Engine (d) None

193. Air pressure is setbar at safety valve-

(a) 3.8 (b) 7-8 (c) 2.5 (d) 5.5

194. Condensed moisture is usually removed from the system by a.....-

(a) Air unloader (b) Water separator (c) Air oiler (d) None

195. The dry air is lubricated through.....-

(a) Air oiler (b) Air dryer (c) Water separator (d) None

196 The..... used to lubricate pneumatic equipments must be free of contaminants i.e. dirt & moisture.-

(a) Air (b) Oil (c) Both 'a' & 'b' (d) None

197. The pneumatic cylinders used in track machines are mostly-

(a) Single acting (b) Double Acting (c) Both 'a' & 'b' (d) None.

198. The brake cylinder in track machine is..... cylinder with spring-
(a) Single acting (b) Double Acting (c) Double rod (d) None.
- 199.Brakes can be applied by.....-
(a) Pneumatic power (b) Manually (c) Hydraulic power (d) All of the above
- 200 The gap between brake shoe and wheel tread shall be maintained.....
(a) 10-12mm (b) 13mm (c) 3-5mm (d) None
- 201.How many corner rollers are there in chain drive system of BCM - RM – 80
a) 9 Nos b) 12 Nos **c) 5 Nos** d) 17 Nos
- 202How many axle gear boxes in driving system of BCM – RM – 80
a) 4 Nos b) 5 Nos c) 10 Nos d) 7 Nos
- 203What are the various sizes of screens in BCM – RM – 80 model Machines.
a) 80mm, 45mm, 30mm **b) 80mm, 50mm, 25mm**
c) 85mm, 35mm, 30mm d) 80mm, 60mm, 20mm
- 204How many extra lifting cylinders are used in lifting unit of BCM – RM – 80 model machines.
a) 8 Nos **b) 4 Nos** c) 6 Nos d) 2 Nos
- 205.How many conveyor belts are used in BCM
a) 5 Nos b) 6 Nos c) 3 Nos **d) 4 Nos**
- 206The load carrying capacity of each duplex chain of 9 T, PQRS
a) 8 Tones b) 10 Tones c) 9 Tones **d) 2.25 Tones**
- 207Number of synchronising chain of PQRS crane
a) 4 Nos b) 6 Nos c) 2 Nos d) 8 Nos
208. BCM is powered with number of engines
a) 2 Nos b) 3 Nos c) 5 Nos d) 7 Nos
- 209** No. of small squeezing cylinders on Duomatic machine
a) 9 Nos b) 10 Nos c) 12 Nos **d) 8 Nos**
- 210 CSM should work with number tamping tools while tamping
a) 30 Nos **b) 32 Nos** c) 35 Nos d) 36 Nos
- 211Number of Small squeezing cylinders on CSM
a) 10 Nos b) 12 Nos **c) 8 Nos** d) 6 Nos
- 212Time requires for replacement of tamping unit up and down cylinder
a) 5 Hours **b) 2 Hours** c) 3 Hours d) 4 Hours
- 213Time requires for replacement of small squeezing cylinder

- a) **5 Hours** b) 2 Hours c) 3 Hours d) 4 Hours
- 214 Time requires for replacement of 16 no. hose of 2.5m length for tamping unit cylinder
a) 20 Minuts **b) 10 Minutes** c) 30 Minuts d) 50 Minuts
- 215 Time requires for replacement of 4 number hydraulic hose of 0.5m length for squeezing cylinder .
a) 20 Minuts **b) 10 Minutes** c) 30 Minuts d) 50 Minuts
216. Tamping tool to be replaced after % of wear of blade.
a) 30 b) 50 **c) 20** d) 40
- 217 Mostly on track machines self starters used are
a) Cumminse make b) KOEL make c) Duitz **d) TVS make**
- 218 No. of operators required for T-28 crane set
a) Three b) Four c) Two d) Six
- 219 Number of cutter chains in FRM
a) 5 Nos b) 6 Nos **c) 2 Nos** d) 1 No
220. Number of conveyor belts on FRM
a) 5 Nos **b) 6 Nos** c) 2 Nos d) 1 No
- 221 The grease used for automatic greasing system on tamping machines
a) EP 2 b) RR 3 **c) Sheell alvania RL 2** d) Bearing grease