

MODEL QUESTION PAPER

Question paper for selection to the post of Junior Engineer
under (Mech/Diesel)/Howrah
PB-2, Scale ₹ 9,300-34,800/- + G.P ₹ 4200/-,
Level-6 in Pay Matrix of 7th PC against 50% PR Quota.

INSTRUCTIONS

- a) Question paper in bi-lingual i.e. in English and in Hindi version is also available and that candidate can also answer questions in regional language.
- b) Full Time: 02 (Two) Hours.
- c) Total Marks: 100.
- d) Out of 110 questions, answer any 100 questions.
- e) Each question carries 01 (one) mark.
- f) Negative Marks : 1/3 mark per wrong answer.
- g) Overwriting, cutting, erasing etc. are not allowed, in case any such correction is made, that answers shall not be evaluated.
- h) There are four options – (a), (b), (c) & (d) given against each question, out of which one is correct answer. Candidate will have to choose the correct option and write it against the question no. in the Answer Booklet provided e.g. 1. (b), 2. (c), etc.

01	Where is the headquarter of South Central Railway located? A) Hajipur B) Secunderabad C) Jabalpur D) Bilaspur
02	Dronacharya award is associated with? A) Literature B) Sports C) Medicine D) Film
03	Lunar eclipse happen when A) The sun comes between Moon & Earth B) The Moon comes between sun & Earth C) The Earth comes between Moon & sun D) The Mars comes between Moon & Earth
04	The property of material to be drawn into wires is called? A) Malleability B) Ductility C) Toughness D) Brittleness
05	Which day is celebrated as Labour Day? A) January 26 B) July 26 C) August 26 D) May 01
06	Which country's team won ICC Cricket World Cup titles 2019? A) West Indies B) India C) England D) Australia
07	Which of the following is only star? A) Moon B) Mars C) Earth D) Sun
08	Where is the capital of Telangana? A) Bengaluru B) Ranchi C) Hyderabad D) Patna
09	Galvanization is a method of protecting iron from rusting by coating it with a thin layer of – A) Silver B) Copper C) Zinc D) Aluminium
10	In photosynthesis which gas is released by green plants. A) Oxygen B) Nitrogen C) Leaves Vapour D) Carbon Di oxide
11	Archimedes principle is used to design which of the following? A) Trucks B) Submarines C) Aircraft D) Cars
12	'Scurvy' diseases is caused due to the deficiency of A) Vitamin A B) Vitamin B C) Vitamin C D) Vitamin D
13	Which out of the following chiefly carries blood from different parts of our body to the heart? A) Nerves B) Arteries C) Veins D) none of this
14	Who is the curret Foreign minister of India? A) Ravi Shankar Prasad B) Amit Shah C) S. Jaishankar D) Kapil Sibhal
15	One cubic meter is equal to A) 1 Litre B) 100 Litre C) 1000 Litre D) none of these
16	Find the missing number in the following series. 2, 4, 16, 96, -----, 7680 A) 752 B) 773 C) 796 D) 768
17	Inverter converts A) DC to AC B) AC to DC C) BOTH D) None of this
18	Complete the series. 15, 8, 20, 18, 25, 28, -----. A) 37 B) 38 C) 30 D) 35
19	The file used for general filing A) Round File B) Square File C) Rasp file D) Flat file
20	In the abbreviation "F.I.R" the 'I' stand for? A) Information B) Intimation C) Indication D) Illustration

21	The Horizontal row of the periodic table is called the – A) Column B) Group C) Table D) Period
22	Name of the meter used to measure Temperature A) Multimeter B) Thermometer C) Anemometer D) Ammeter
23	A micrometer screw has a pitch of 0.5 mm. the circular scale is divided into 50 parts. The least count of the micrometer is : A) 0.05 mm B) 0.02 mm C) 0.01 mm D) None of these.
24	Principal bench of the CAT is situated at A) Chennai B) Delhi C) Bhopal D) Gandhinagar
25	When was the first ICC Cricket World Cup held? A) 1972 B) 1975 C) 1985 D) 1979
26	Function of Air Vacuum proportionate valve is in Diesel locos for – A) Acceleration B) Loco comes to idle C) For starting of loco D) For synchronization of brake
27	There are _____ silver-plated hydra-dynamic bearings in HHP TSC A) 2 B) 3 C) 5 D) 6
28	Horsepower of WDG4 Loco is – A) 2600-3300 B) 4000-4500 C) 4000-4500 D) None of these.
29	DCP Type Fire extinguisher is suitable to extinguish ----- fire A) Diesel B) Electric C) Petrol D) All
30	Brake Pipe pressure is ----- kg/cm ² A) 5 B) 6 C) 3.4 D) 4
31	----- is checked with Tyre Defect Gauge. A) Wheel defect B) Buckle defect C) CBC defect D) Door defect
32	Wheel gauge (distance between two wheels) is ----- A) 1600 B) 1600 +2-1 C) 1599 D) 1676
33	To check Thrust Washer wear by “absolute snap ring clearance” method concerned piston to be kept in – A) TDC B) BDC C) 45° after TDC D) 22½° after TDC
34	Unit of Air Flow Indicator (AFI) is – A) Kg/cm ² B) Pound / inch C) Wagon reading D) Km/hr
35	How many braking position of SA-9 valve have A) 03 position B) 02 position C) 05 position D) 01 position
36	Above C2-relay diaphragm air pressure comes from – A) A-9 valve B) SA-9 valve C) MR valve D) Synchronization on pressure
37	Duplex check valve operates when MR pressure reaches at pressure (kg/cm ²) A) 5kg/cm ² B) 6kg/cm ² C) Always open D) 10kg/cm ²
38	When H5 or HB-5 valve operates which air supply goes to PCS – A) MR Pressure B) HS-4 Pressure C) FP Pressure D) BP Pressure
39	H- type coupler is used in ----- A) Coaching Stock B) Wagon Stock C) Engine D) None of these
40	In automatic switching on flasher light modification of locos the TDR (time delay relay) is set at... A) 40 sec B) 15 sec C) 60 sec D) 120 sec

41	WDP4 is used in – A) Goods B) Passenger C) Goods & Passengers D) None of these
42	Speed of ALCO Loco is – A) 120 kmph B) 140 kmph C) 160 kmph D) 180 kmph
43	Brake system of WDM2 is A) 25SAB1 B) 22RSV1 C) 28LAV1 D) None
44	Minimum wheel diameter of Locomotive is – mm A) 1000 B) 950 C) 906 D) 1016
45	Fuel Oil Tank capacity of WDM2 locomotive is – litre A) 6000 B) 5000 C) 2000 D) none
46	Compression Ratio of WDM2 Loco is – A) 1:12.5 B) 1:7 C) 1:15 D) 1:18
47	Type of bogie fitted in WDM2 is – A) COCO B) BOBO C) BOCO D) none
48	IHP of WDM2 is loco is A) 2750 B) 3100 C) 2600 D) 2800
49	There is no limit of Duty for.....category A) Intensive B) Continuous C) Essentially intermittent D) Excluded
50	Encashment given at the time of retirement for ----no. of LAP leave A) 300 B) 250 C) 280 D) 350
51	Bronze pass given from grade officer A) JAG B) Sr. Scale C) SAG D) None
52	Head Quarter of Rly Safety Commission is A) Delhi B) Calcutta C) Bombay D) Chennai
53	-----is the highest authority of Stores department of Zonal Railway A) PCME B) PCFTM C) PCOM D) PCMM
54	By---Rule an employee can be removing without issuing charge sheet A) 11/2 B) 14/2 C) 10/3 D) None
55	Railway expenditure divided into----demands A) 09 B) 16 C) 05 D) 25
56	-----is the chairman of staff benefit fund at head quarter A) PCME B) PCPO C) Welfare Officer D) SPO
57	----form is used for sending condemn material to store A) DS8 B) Issue Ticket C) NSR form D) None
58	PL no. is denoted by ----digit A) 8 B) 10 C) 12 D) 6
59	Stock items are drawl on form no. A) DS8 B) Issue Ticket C) Requisition D) None
60	AAC is for A) Stock B) Non stock C) Imported stock D) Emergency Stock

61	ARE is prepared in the month of A) August B) May C) January D) December
62	Final modification of budget is prepared A) August B) May C) January D) December
63	Chairman of PNM at HQ is -- A) PCME B) SDGM C) PCPO D) None
64	Maharashtra is under --- region as per RAJ BHASA ACT A) A B) B C) C D) D
65	When was the official language at 1963 passed A) 10.05.1961 B) 10.05.1962 C) 10.05.1963 D) None
66	In which state URDU has been declare as Official Language? A) Andhra Pradesh and MP B) AP & Bihar C) Maharstra & UP D) None
67	In which state section 6 & 7 of official language at 1963 do not apply? A) J&K B) Bihar C) Jharkhand D) WB
68	How many articles are the in XVII of the constitution? A) 8 B) 9 C) 10 D) 11
69	Who was the first chairman of the official language commission? A) B. G. Kher B) G. B. Pant C) B. D. Malwenkar D) None
70	Who chair the Hindi Salakar Samiti constituted in 1973? A) B. G. Kher B) G. B. Pant C) B. D. Malwenkar D) Lalit Narayan Mishra
71	How many members are there in the parliamentary committee on official language? A) 20 B) 30 C) 40 D) 50
72	How many Hindi course are prescribed for Central Govt Employees? A) Two B) Three C) Four D) One
73	Who is The Chairman of Central Hindi Committee? A) President B) Vice President C) Prime Minister D) Speaker of Lok Sabha
74	No. of roller in Compressor Drive Coupling is - A) 10 B) 12 C) 8 D) 16
75	No. of teeth in Camshaft Drive Gear is - A) 26 B) 37 C) 79 D) 113
76	Fire extinguishers should be refilled A) Every month B) Every Three month C) After One year D) One every trip
77	NDRF stand for A) National Disaster Response Force B) National Disaster Rescue Force C) National Disaster Relief Force D) None of these
78	NDMA stands for A) National Disaster Management Authority B) National Disaster Manager Authority C) National Development Management Authority D) None of these
79	The passage between stationary vanes of nozzle ring is called A) Nozzle B) Cradle C) Diffuser D) None of these
80	In 710-G TSC impeller is made by – A) Casting B) Forging C) Friction welding D) None of these

81	How many “O” rings are fitted in spool valve of VA-1B control valve? A) 02 Nos. B) 03 Nos. C) 04 Nos. D) 05 Nos.
82	Thread diameter of BP & FP angle cocks (in inch) is... A) 1” B) 3” C) 2” D) 1¼ ”
83	The standard Colour of humidity indicator in air dryer is A) Orange B) Purple C) Blue D) White
84	Lube oil consumption of HHP Loco compressor should not be more than – A) 1.5 ltrs/month B) 2 ltrs/month C) 3 ltrs/month D) 3.5 ltrs/month
85	How many RCD point available in HWH division? A) 3 B) 4 C) 5 D) 6
86	What is the full form of HSD oil? A) High Speed Diesel Oil B) High Sulphide Diesel Oil C) Heavy Speed Diesel Oil D) None of these
87	MR safety valve is set at pressure (in kg/cm ²) A) 10.0 kg/cm ² B) 6.0 kg/cm ² C) Above 10.5 kg/cm ² D) Below 6.0 kg/cm ²
88	Feed valve is charge from – A) MR-1 tank B) MR-2 tank C) ‘J’ fitter D) BP pipe
89	What is then full form of ‘AMOC’? A) Completely Annual Maintenance Commission B) Comprehensive Annual Maintenance Contract C) Comparatively Annual Maintenance Contract D) None of these
90	In minimum reduction position of A-9 brake valve BP should drop upto (PSI) A) 0 to3 PSI B) 4 to 7 PSI C) 8 to 11 PSI D) 12 to 15 PSI
91	A, B and C can finish a piece of work in 12 dyas,15 days and 20 days respectively. They started together but B left 3 days before the completion of work. Calculate number of days in which the work is completed. A) 5 B) 12 C) 6 D) NOT
92	If a:b=7:3 and b:c=5:4 the find a:b:c= ? A) 35:15:14 B) 35:12:15 C) 35:15:12 D) 12:35:15
93	The selling price of any article is Rs. 5400 after a discount of 14.28%. Find the print price. A) 6300 B) 4500 C) 8100 D) CND
94	On increasing the diameter of a circle by 75%, what will be the percentage increasing in the perimeter? A) 65% B) 70% C) 75% D) 80%
95	If the longer side of a rectangle is doubled and other reduced to half, then what will be the percentage increment in the area of new rectangle? A) 50% B) 100% C) 0% D) 150%
96	Two trains with length 325 meter and 375 meter respectively are moving towards each other. Their speed is 12 M/S and 23 m/s respectively. What will be the time needed by the trains to cross each others? A) 10s B) 7s C) 20s D) 15s
97	Sum of the squares of two natural consecutive odd numbers is 290.The sum of the numbers is A) 24 B) 32 C) 40 D) 28

98	The temperature at which both the centigrade and Fahrenheit thermometer show the same reading is A) -20 degrees B) -30 degrees C) -40 degrees D) -24 degrees
99	Perimeter of a rectangular is 640 meter and length to breadth ratio is 5:3. Its area will be A) 24000 sq m B) 20000 sq m C) 18000 sq m D) 32000 sq m
100	A stone is thrown vertically upwards, with a velocity of 30 m/s. Assuming 'g' as 10 m/s ² the height to which it will rise will be A) 40 m B) 35 m C) 45 m D) 50 m
101	अरुणाचल प्रदेश किस क्षेत्र आता है तथा उसकी राजभाषा क्या है? अरुणाचल प्रदेश 'ग' क्षेत्र आता है तथा उसकी राजभाषा अंग्रेजी है।
102	प्रत्येक वर्ष हिंदी दिवस कब मानाया जाता है? 14 सितंबर
103	राजभाषा अधिनियम, 1963 का संशोधन कब हुआ? वर्ष 1967
104	संविधान के भाग-17 का संबंध किससे। संघ की राजभाषा से
105	राजभाषा आयोग का गठन कब हुआ था? 07 जून, 1955 को।
106	राजभाषा नियम का संशोधन कब हुआ? वर्ष 1987 में।
107	1955 में गठित राजभाषा आयोग का नाम क्या था? 'खेर आयोग'।
108	हिंदी को संवैधानिक दर्जा कब मिला? 14 सितंबर, 1949 को
109	राजभाषा अधिनियम 1963 की धारा 3(3) कब प्रवृत्त हुई? 26 जनवरी, 1965.
110	राजभाषा नियम कब पारित हुआ? वर्ष 1976 में।

KEY

1		23		45		70		92	
2		24		46		71		93	
3		25		50		72		94	
4		26		51		73		95	
5		27		52		74		96	
6		28		53		75		97	
7		29		54		76		98	
8		30		55		77		99	
9		31		56		78		100	
10		32		57		79		101	
11		33		58		80		102	
12		34		59		81		103	
13		35		60		82		104	
14		36		61		83		105	
15		37		62		84		106	
16		38		63		85		107	
17		39		64		86		108	
18		40		65		87		109	
19		41		66		88		110	
20		42		67		89			
21		43		68		90			
22		44		69		91			