



**(Model Paper- 1) RRB - Assistant Loco Pilot and  
Technician Exam**

**Technical Aptitude**

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**1. The Tractor braking system is of**

- a) Mechanical type
- b) Hydraulic type
- c) Pneumatic type
- d) Electrical type

**2. The Power input of 1 ton air conditioner is**

- a) 1kw
- b) 1.6kw
- c) 2.4kw
- d) 2.6kw

**3. The refrigerator has a cooling capacity of 750 kcal/m. Its capacity in tons of refrigeration is equal to**

- a) 7.5
- b) 10
- c) 15
- d) 30

**4. The color code of refrigerator Ammonia is**

- a) Orange
- b) White

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- c) Light blue
- d) Green

**5. The head used to remove any previous recording from the tape is**

- a) Recording head
- b) Erasing head
- c) Play back head
- d) Running head

**6. A Knee is a part of**

- a) Lathe
- b) Milling machine
- c) Jig boring machine
- d) Grinding

**7. Files are made of**

- a) H.S.S
- b) C.I.
- c) M.S.
- d) None of these

**8. The non ferrous metal with the lowest melting point is**

- a) Aluminum
- b) Copper
- c) Lead
- d) Tin

**9. The Front clearance angle of turning tool is maintained between**

- a)  $3^\circ$  to  $4^\circ$
- b)  $8^\circ$  to  $12^\circ$
- c)  $15^\circ$  to  $18^\circ$
- d)  $22^\circ$  to  $25^\circ$

**10. The number of Guide ways provided on the lathe bed is**

- a) One
- b) Two
- c) Three
- d) Six

**11. The formula for cutting speed in meter/minute for turning a job of diameter  $D$  mm is given by**

- a)  $DN/100$  meter/min
- b)  $DN/1000$  meter/min

- c) /1000 meter/min
- d) None of these

**12. Mandrel is a**

- a) Work holding device
- b) Supporting device
- c) a & b
- d) None

**13. The following tool is used of r boring a deep hole**

- a) Drill
- b) Reamer
- c) Boring bit
- d) Augur bit

**14. Power Hack-saw blade cuts the material during**

- a) Return stroke
- b) Forward stroke
- c) a & b
- d) None

**15. For gear cutting operation the type of milling used is**

- a) End milling
- b) Face milling
- c) Side milling
- d) Slit Milling

**16. Open and cross belt device quick return motion mechanism is used in**

- a) Horizontal shaper
- b) Vertical Shaper
- c) Slotter
- d) Planner

**17. In Direct Indexing the indexing plate used rotating the job spindle is provided with**

- a) 44 holes
- b) 20 holes
- c) 24 holes
- d) None of these

**18. One watt-hour is equal to**

- a) 36000 joules
- b) 3000 joules

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- c) 3600 joules
- d) None of these

**19. Otto cycle is also known as**

- a) Bell Coleman Cycle
- b) Carnot Cycle
- c) Constant Volume Cycle
- d) Sterling Cycle

**20. The brake thermal efficiency and mechanical efficiency of a diesel engine are 50% and 70% respectively. The indicator thermal efficiency is**

- a) 20%
- b) 70%
- c) 60%
- d) 80%

**21. The king pin is indeed**

- a) Back wards
- b) Front wards
- c) Out wards
- d) In wards

**22. The grade of lubricant used in gear box is**

- a) SAX 30
- b) SAE 40
- c) SAE 90
- d) SAE 150

**23. The number of piles provided for a truck tyre is**

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

**24. Propeller Shaft takes the drive from**

- a) Clutch
- b) Flywheel
- c) Gear box
- d) Differential

**25. Petrol engine uses the following thermodynamic cycle**

- a) Carnot Cycle
- b) Sterling Cycle

- c) Otto Cycle
- d) None

**26. In gear ration between the starter pinion and the fly wheel ring gear is**

- a) 8
- b) 1:12
- c) 1:16
- d) 1:25

**27. For measuring the ovality of the cylinder bore the gauge used is**

- a) Dial Indicator
- b) Plug gauge
- c) Micro meter
- d) Compression gauge

**28. The crank shaft made of**

- a) Aluminum alloy
- b) Cast Iron
- c) Steel
- d) Forged steel alloy

**29. The composition of petrol fuel is approximately given as**

- a) 60% carbon, 40% hydrogen
- b) 75% carbon, 25% hydrogen
- c) 85% carbon, 15% hydrogen
- d) 95% carbon, 5% hydrogen

**30. The lubricating oil pump develops a pressure of**

- a) 1 to 2 kg/cm<sup>2</sup>
- b) 3 to 5 kg/cm<sup>2</sup>
- c) 5 to 8 kg/cm<sup>2</sup>
- d) 8 to 10 kg/cm<sup>2</sup>



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