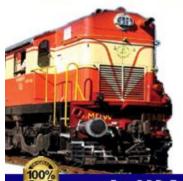


## (Model Paper- 1) RRB - Assistant Loco Pilot and Technician Exam

### **Technical Aptitude**

- 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 0 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

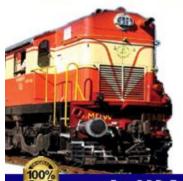
#### 17. In Direct Indexing the indexing plate used rotating the job spidle is provided with

- 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/cm2
- b) 3 to 5 kg/cm2
- c) 5 to 8 kg/cm2
- d) 8 to 10 kg/cm2



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