

**SYLLABUS WITH SAMPLE QUESTIONS FOR WRITTEN  
EXAMINATION OF JR. TECH. INSPECTOR AND CHEMIST**

**(A) OWN COMPANY**

- (1) MCL was formed in the year :
- (a) 1990
  - (b) 2000
  - (c) 1992
  - (d) 1996
- (2) MCL produces which type of coal :
- (a) Coking Coal
  - (b) Semi Coking Coal
  - (c) Non-coking Coal
  - (d) None of the above

**(B) PHYSICS**

- (1) Rockets works in the principles of conservation of :
- (a) Mass
  - (b) Momentum
  - (c) Energy
  - (d) Velocity
- (2) Distant objects can be seen with the help of :
- (a) Chronometer
  - (b) Microscope
  - (c) Telescope
  - (d) Spectroscope

**(C) CHEMISTRY**

- (1) Balloons are filled with :
- (a) Helium
  - (b) Oxygen
  - (c) Nitrogen
  - (d) Argon
- (2) Conversion of substance directly from Solid to Vapour known as :
- (a) Ionization
  - (b) Vapourization
  - (c) Evaporation
  - (d) Sublimation

**(D) MATHEMATICS**

- (1) 32 is 40% of what number :
- (a) 12.8
  - (b) 128
  - (c) 80
  - (d) 800
- (2) How many pieces of 85 cms length can be cut from a rod of 42.5 meter long :
- (a) 15
  - (b) 20
  - (c) 2
  - (d) 50

(E) GENERAL KNOWLEDGE

- (1) What is the topmost colour in our National Flag?  
(a) Green  
(b) White  
(c) Saffron  
(d) Red
- (2) Who presides over the joint sitting of Parliament in India?  
(a) The person elected by both the House  
(b) The Chairman of the Council  
(c) The Speaker of Lok Sabha  
(d) The Dy. Speaker of Lok Sabha

(F) ENGLISH

- (1) Which one of the following words will come third in the Dictionary?  
(a) Rest  
(b) Reserve  
(c) Real  
(d) Repeat
- (2) Fill in the gaps using correct tense - I \_\_\_\_\_ a car in last month :  
(a) Bought  
(b) was Bought  
(c) shall Buy  
(d) Buy

(G) COMPUTER

- (1) All the following are output device except :  
(a) Scanner  
(b) Printer  
(c) CPU  
(d) Monitor
- (2) Most of the official presentation are made using which of the following :  
(a) MS Word  
(b) MS Excel  
(c) MS Paint  
(d) MS Powerpoint Presentation

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