# MN802 - Mine Legislation and Safety

P. Pages : 2                                                                                          GUG/S/18/7121

Time : Three Hours                    *2221*                                  Max. Marks : 80

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Notes : 1.   Due credit will be given to neatness and adequate dimensions.
2.   Illustrate your answers wherever necessary with the help of neat sketches.
3.   Weightage to the question indicated to its right.

**1.** a)   Enlist the salient features of the current mines Act.                                    **6**

b)   Explain the powers of inspector to prohibit the employment in certain case (Section -22A     **10**
of the mines act).

**OR**

**2.**        Give the statutory provision wrt to following.                                        **16**
a)   No. of workmen inspector.

b)    Qualification, experience, and training of person to be nominated as WI.

c)   Duty of workmen inspector.

d)   Criteria of minimum attendance for availing leave with wages.

**3.**        Write as per CMR – '17

a)   Duty of manager wrt U/G visit.                                                 **5**

b)   Life of winding rope.                                                           **5**

c)   Capping of rope if white metal is used.                                         **6**

**OR**

**4.**        Write the provision of CMR –'17 wrt.

a)   Standard of lighting in U/G.                                                    **4**

b)   Features to be shown on U/G plan.                                               **6**

c)   Use of welding app. in U/G.                                                     **6**

**5.**        Write the provisions as per MMR.                                                       **16**
a)   Appointment of manager.

b)   Standard of lighting in U/G.

c)   Standard of dustiness.

d)   Features to be shown on water danger plan.

**6.** Write the provision of MMR wrt to following.

    a) F O S of winding rope . **5**

    b) Standard of lighting in O/C. **5**

    c) Duty of manager wrt mine visit. **6**

**7.** a) Enlist the headings under which an accident is investigated. **5**

    b) Give the format of accident enquiry report. **5**

    c) Benefits of accident prevention. **6**

**8.** a) Enlist the various types of an accident. Classify the accident on the basis of. **10**

    i) Cause

    ii) Shift

    iii) Experience

    b) "Accidents do not happen by itself. It is caused". – Explain the statement with proper example. **6**

**9.** a) Define. **10**
    a) Flame proof enclosure.

    b) Intrinsically safe circuit.

    c) Medium Voltage.

    d) Portable apparatus.

    e) Open spark.

    b) Explain SAPICOM. **6**

**10.** Write short notes on.

    a) Accident frequency rate. **6**

    b) Risk. **6**

    c) FAB. **4**

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