“प्रश्नपत्रिका उत्तरपत्रिका के साथ जोड़ा अनिवार्य हैं।”

“QUESTION PAPER MUST BE ATTACHED ALONGWITH THE ANSWER BOOK.”

मई, 2012

ASSOCIATESHIP EXAMINATION

FIRE HAZARDS OF SPECIFIC INDUSTRIES

समय : 3 घंटे
Time : 3 Hours

[ कुल अंक : 100
[ Total Marks : 100

किसी भी प्रश्न को उत्तर देने से पहले अनिवार्य है।

अन्य सभी प्रश्न 12 अंक है।

Answer EIGHT questions only. Question number TEN carries 16 marks but this is not compulsory.

All other questions carry 12 marks each.

Q.1 Answer ANY THREE of the following

a) Describe with a flow diagram the process of manufacturing tea from leaves.

b) Write a note on raising department of textile mill.

c) Explain fire hazards in thermic fluid heaters.

d) What are the fire hazards in singeing process.

Q.2 Answer ANY THREE from the following:

a) Narrate the loss prevention steps to be taken in respect of Indoor storage in Paper Mills?

b) Describe the process involved in Raw Material preparation of a Paper Mill?

c) What are the major causes of fire in Paper Machine?

d) Explain the Preventive measures to be followed in respect of outdoor storage in Paper Mill?

Q.3 Answer ANY THREE:

a) घायलूकार्य उद्योग में धैर्यी विद्युत से उद्योग के प्रमुख कारणों को बताने की कोशिश कीजिए।

b) घायलूकार्य उद्योग में दलदाई एवं उत्तराभाव से उद्योग के प्रमुख कारणों को बताने की कोशिश कीजिए।

c) भारतीय पेट्रोलियम नियमों के अनुसार ज्वलनशील इतनो का वर्गीकरण कीजिए।
Q.3 Explain ANY THREE of the following:
   a) Hazards posed by Static Electricity in the Hydro Carbon Industry?
   b) Measures to be taken for loss prevention in Loading & Unloading areas of Hydro Carbon Industry?
   c) Main products obtained by refining in Hydro-Carbon Processing Industry?
   d) Classification of flammable liquids as per Indian Petroleum Rules.

Q.4 Answer Any Two of the following:
   a) Explain how natural rubber is prepared from latex?
   b) Write a short note on spreading
   c) Write a short note on vulcanising

Q.5 State ANY TWO of the following:
   a) Hazards involved in welding and cutting process of Engineering Industry.
   b) Safety steps to be adopted to minimise hazards in quenching section?
   c) The hazards and preventive measures of spray painting Dept. of Engineering Industry.

Q.6 Answer Any Two of the following:
   a) Explain fire hazards in the storage of raw materials in the open in paper industries.
   b) Draw a flow diagram of a continuous solvent extraction plant and explain the various sections.
   c) What are the hazards of construction in tea factories?

Q.7 Specify the loss prevention measures to be followed in Paper Mills.
Q.8 What are the main sources of ignition in metal working of Engineering Industry? Also suggest prevention measures of such hazards.

Q.9 Explain the hazards involved in processes of heat transfer, size reduction, evaporation, sulforation, nitration and hydrogenation.

Q.10 Explain the process of site selection and preparation of lay-out for putting up a hydrocarbon processing plant.

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