

16288(D)

DEC 2016

B. Tech 8th Semester Examination

Mill Management & Maintenance (NS)

TE-422

Time : 3 Hours

Max. Marks : 100

The candidates shall limit their answers precisely within the answer-book (40 pages) issued to them and no supplementary/continuation sheet will be issued.

Note : Candidates are required to attempt five questions in all selecting one question from each section A, B, C & D of the question paper and all the subparts of the questions in section E. Use of non-programmable calculators is allowed.

SECTION - A

1. What are the factors affecting location of a plant and site selection? Discuss those entire factors in details. (20)
2. What do you understand by mill layouts and machine layouts? Discuss different factors to be considered for laying out of mill and machine. (4+16=20)

SECTION - B

3. Why do you consider that maintenance of humidity condition is an essential component for textiles unit? What are different types of humidifier? Discuss in detail the methods of controlling humidity in a textile unit. (6+2+12=20)
4. Calculate number of different machine require to produce 8 Ton/day 30s Ne carded cotton yarn from your own assume data. (20)

SECTION - C

5. What do you understand by elements of cost? Discuss the different element of cost in detail. Discuss impact of end breaks in ring spinning on productivity and cost. (10+10=20)

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6. What is conversion cost? What are different types of energy consumption associated in a textile mill? What are measures required in a textile mill to reduce energy consumption? (4+16=20)

SECTION - D

7. Classify material handling equipments. What do you understand by work load and work assignment? What is effect of end breaks on work assignment? Discuss the different factor responsible for good working environment. (4+4+4+8=20)
8. What is aim of maintenance? Discuss about the different types of maintenance used in textile mill. What do you understand by down time management? Discuss down time analysis procedure followed in textile mill. (4+8+8=20)

SECTION - E

9. (i) What are objectives of plant layouts?
(ii) What is role of open space in between the machines?
(iii) What do you understand by relative humidity?
(iv) What do you understand by conversion cost?
(v) What is sales price?
(vi) What is heat load?
(vii) What is effect of high noise on human work efficiency?
(viii) What do you mean by safety in work environment?
(ix) What is important of maintenance work?
(x) What are factors to be controlled for air conditioning? (10×2=20)