

17531

| 3 Hours / 100 M | arks | Seat No. | | | | | | | |
|-----------------------------|---|---|---|---|-----------------------------------|--------------------------------------|------------------------|--------------------|----------|
| Instructions : | All quad Illustra Figure Assum Mobile device | estions are comp ate your answer, es to the right ind e suitable data, e Phone, Pager d s are not permis | oulsor s with dicate if nece and ar sible i | y. neat ske full mar e ssary . ty other n Exami | etches ks. Electr natior | w herev onic Co 1 Hall. | e r nec mmur | cessary vicatio | y. on |
| | | | | | | | | Γ | Marks |
| 1. A) Attempt any three. | | | | | | | | | 12 |
| a) Explain necessit | ty of water p | urification in indu | istry. N | lame var | ious m | ethods u | sed. | | |
| b) State importanc | e of mainten | ance and name it | s types | | | | | | |
| c) Write benefits o | f Total Produ | uctive Maintenan | ce. | | | | | | |
| d) Write factors aff | fecting select | ion of lubricants. | | | | | | | |
| B) Attempt any one . | | | | | | | | | 6 |
| a) Sketch and expl | ain electric p | ower distribution | n syster | m used ir | indus | try. | | | |
| b) What is standby | and emerge | ency power ? Exp | plain th | ne schem | es use | d with sl | ketch. | | |
| 2. Attempt any four. | | | | | | | | | 16 |
| a) What is repair cycle | ? State vario | ous activities perf | formed | l in four s | stages | of repair | cycle | | |
| b) Write procedure of j | preventive m | naintenance for a | compr | essor. | | | | | |
| c) Compare breakdow | n v/s preven | tive maintenance | | | | | | | |
| d) Draw a format for ty | pical machi | ne history chart ai | nd exp | laın. | | | | | |
| e) Explain basic system | IIS OF FOURT | Toductive Mainte | enance | • | | | | | |
| 3. Attempt any four of the | following: | | | | | | | | 16 |
| a) What are pillers of 7 | Fotal Produc | ctive Maintenance | e. | | | | | | |
| b) What is wear ? Com | pare adhesi | ve wear with abr | asive v | vear. | 1 | | | | |
| c) State conditions in w | /hich followi | ing lubrication sys | stems a | re suitab | le . | \ · 1 | | | |
| 1) Centralised | 1) Pa | a | ш) s | splash | 1 | v) wick | | | |
| d) Explain maintenance | - inh reconne | ibility allocation n | rocess | used in T | otal Pr | oductive | Main | tenance | P |

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| | | Ma | rks |
|----|----|--|-----|
| 4. | A) | Attempt any three. a) State meaning of accessibility. For maintenance on which factors it depends ? b) Explain construction of circuit breaker and state its use. c) Write necessary steps/precautions for prevention of fire due to electricity. d) What are personal protective equipments ? Explain any two and their use. e) Write philosophy of TPM and its concept. | 12 |
| | B) | Attempt any one.a) Explain corrosive reaction and pitting corrosion with examples. How these can be avoided ?b) Explain procedure of earthing in electrical system. Write precautionary measures against electric shock. | 6 |
| 5. | At | tempt any four . | 16 |
| | a) | Explain lever controlled trip mechanism with sketch. | |
| | b) | Define electrical accident. Write its causes and effects. | |
| | c) | Explain fool proofing devices for interlocking for parallel shafts. | |
| | d) | State importance of lubrication. | |
| | e) | Explain the use of voltmeter and multimeter in electrical maintenance. | |
| 6. | At | tempt any two . | 16 |
| | a) | Explain industrial ventilation system along with its importance. | |
| | b) | Explain the following: | |
| | | i) planning and scheduling of maintenance | |
| | | ii) maintenance manuals and reports. | |
| | c) | Explain the following. | |

- i) First aid and its importance
- ii) Travel control by limit switches.