

2. JEE+FO+E |E|XEESEO =KE@TÉ (Edhíéá) nñm :- 16

(+) शिट मेटल वर्कसाठी वापरण्यांत येणाऱ्या विविध साधनांची व हत्यारांची माहिती तें.

(म्ह) VEEIESA|EE@OEFEMME I^AESAMENVE'EC°{E'}oEO@.

(EO) E+bMESa; d^aEnä É iEEä oEdhíéáiEa±E½.

(b-) EOM+E °]ME @PÉEä SSEO +EEbiEO EdFME Ed^EHÉE+(ESa EhEQE EO@.

3. JEE+FO+E |E|XEESEO =KE@TÉ (Edhíéá) nñm :- 16

(+) °EEQ+E Ed]ME EE^EXESEO °EEEo +EEbiEO EdFME I^AES^EE É EE'EVE |EEME^EE xEE'Ea tÉ.

(म्ह) {EE<QE ^EAbME EE^EXESEO +EEbiEO EdFME I^AES^EE É EE'EVE |EEME^EE xEE'Ea tÉ.

(EO) bE^EC] EO@VExE@ S@a; d^aEnä É iEEä oE±E½.

(b-) jE°]öxEMSAEE EMEM^o-E {EvniEO °{E'} EO@.

4. JEE+FO+E |E|XEESEO IEEbE^EEIÉ =KE@TÉ (Edhíéá) nñm :- 16

(+) +EEQ E+bMEOE ° EE{E^aEEIÉ ^EmEE-EE A.C.] M^OE; dE^E@UE} QHE IE^EEUEO@.

(म्ह) ½hb {EASEME EE^EXESEO @SxEE É Ed^EC°{E'} EO@.

(EO) EAbMES^EE EMEM^o-E bOP]AC]o½]OP]SEO EE^½PEO tÉ.

(b-) EAbOME {EEZIE^E ½]OEUE(E^EE °{E'}) EO@.

5. IEEbE^EEIÉ E]QEE E±E½ (Edhíéá) S^EE :- 16

(+) +EEQ EAbOME OEäo

(म्ह) OEEabPM

(EO) E+bME ^EEa{EE<QE

(b-) +EEQ ^EEa

(<) xE]o+EEHÉ ^EEa]S@a|EE@U

(j) }±EC^ESa; d^aEnä

6. JEE+FO+E(EEo Edhíéá) nñm |E|xÉ OEEd^EE :- 16

(+) E+bME EvOE +MEMQE É ^EEA nñm EdhíéáiEa±E½.

(म्ह) <+EC]MSO ExE Eb=EdhíéaEE {Er^EOEaE+EO VEEia

(EO) E+bME +EEQSaiEK É °{E'} EO@. I^AESAMENVE'EC+EEHÉ +EEQ ±EMISEO EE^½PEO tÉ.

(b-) E+bMEOE ° ±EVHÉE@ EMEM^o-j{E^E^OEASSEO EE^½PEO tÉ.

(ENGLISH)

[TIME ALLOWED—3 HOURS]

(MARKS—100)

BASIC SHEET METAL WORK, FASTENING WELDING (THEORY-II)*Instructions—* (1) Attempt *all* questions.(2) Draw a neat diagram wherever *necessary*.(3) Figures in right side indicates *full* marks.**Marks**

1. (a) Fill in the blanks (any *five*) :— 5
- (i) Scribes are made up frommaterial.
 - (ii) For the A.C. Weldingtype of transformer issued.
 - (iii) Instrument used for marking out circle on metal is
 - (iv)tool is used for cleaning of torch tip.
 - (v) Transformer used in arc welding istransformer.
 - (vi) Mallet is made of
- (b) State *true* or *false* (any *five*) :— 5
- (i) At the time of riveting a hole diameter and revel diameter should be same in size.
 - (ii) Electric arc welding is nothing but a process of fusion welding.
 - (iii) Zing chloride is a flux.
 - (iv) Revel is made up from lead.
 - (v) Size of filler rod is specified by its length.
 - (vi) Current setting for welding depends upon diameter of welding electrode.
- (c) State following terms (any *five*) :— 5
- (i) Hard Solder. (iv) Flux
 - (ii) Nibbling (v) Brazing
 - (iii) Fillet (vi) Pre-heating.
- (d) Match the pairs of following (any *five*) :— 5
- | ‘A’ Group | ‘B’ Group |
|-------------------------------------|---------------------|
| (i) Semi-permanent fastening | (a) Reverting |
| (ii) Temporary fastening | (b) Nut bolting |
| (iii) Strongest permanent fastening | (c) Welding |
| (iv) Acetylene is more than oxygen | (d) Oxidising flame |
| (v) Gas used for welding in water | (e) Hydrogen |
| (vi) Overhead welding | (f) Helmet. |

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Marks

2. Attempt any *two* of the following :— 16
- (a) Explain various tools and equipments used in sheet metal work.
 - (b) Give the types of metal and explain its property.
 - (c) What are the advantages and disadvantages of welding.
 - (d) State the working principle of single stage regulator and draw the figure.
3. Solve the following questions (any *two*) :— 16
- (a) Draw a neat diagram of circle cutting machine. Give names of it's parts.
 - (b) Draw a neat labelled diagram of pipe bending machine.
 - (c) Advantages & disadvantages in direct current generator.
 - (d) Explain various types of fastening.
4. Give the answers in detail (any *two*) :— 16
- (a) Write a note on A.C. transformer used in arc welding.
 - (b) Explain construction and working of hand punching machine.
 - (c) Explain various destructive test in welding.
 - (d) Explain the term welding positions.
5. Write short notes (any *four*) :— 16
- (a) Arc welding set
 - (b) Soldering
 - (c) Welding blow pipe
 - (d) Arc Blow
 - (e) Types of nuts and bolts
 - (f) Importnt of flux.
6. Attempt any *two* of the following :— 16
- (a) What are the internal and external defects in welding ?
 - (b) What are the selection criteria for electrode ?
 - (c) What are the selection criteria arc its characteristics and arc length ?
 - (d) Explain different types of power sources used in welding.
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