

2. JEE+EO+EE(EO EdhEi+EE/2) nME |EgEEEO =KEtE :- 16
- (+)]ME; dEEO 1/2hEVaEdE? i+ESa|EdE+EE.
- (E) EEtOE EOP; +EM +EMh+ESO EdMEaEdMEIO? i+EE E=EE EdhEiEa
- (EO) EEtOE |EE/ES Z] Ed +EMMEfa+EE E OEOESO Ed 3/EO EdhEIO PaEE EO?
- (b) +iEM 1/2hEVaEdE? i+ESa E/2 E (E1) EO.
3. JEE+EO+ |EgEE EEO+EE (EdhEiE/2) nME :- 16
- (+) OEOIEiESa E/2 E (E1) OEO+xE EdEgEE 3/ E E+ME EdhEIO Ed 3/EO PaEE EO? iEO(E1) OEO.
- (E) <+EO] ME iEa O(E1) OEO.
- (EO) Faradays Law of Electromagnetism SEO EE/2 E+1/2.
- (b) bEEO+EE EdEgEE+ESa EHE EO.
4. JEE+EO+ |EgEEEO OE E+EE=KEtE (EdhEiE/2) nME :- 16
- (+) OMEHEES+EE EE(E+EE E gEE EO) oiE+EE EO+ESO EbiEO E+1/2.
- (E) E] OEO EXME E nME; EE+ EO EO EO?
- (EO) विद्युत कामामध्ये वापरल्या जाणाऱ्या विद्युत विरोधकांची नावे लिहून त्यांचे उपयोग लिहा.
- (b) EdE (EO) EO+EE <XE(E) O+EE +E>E] E] OEO 1/2 <OE E+1/2 +EE iEO(E1) OEO.
5. iEO+EE E] EE E+1/2 (EdhEiE/2) SE :- 16
- (+) Soldering of conductor
- (E) Uni-junction transistor
- (EO) nME VEO EE E+EO MEHEESa E/2 E
- (b)]+EM +E] 1/2SE EXE E
- (<) EO. EO
- (i) OEO-bE 1/2
6. JEE+EO+EE(EO EdhEiE/2) nME |EgEE EEO+EE :- 16
- (+) gEE EO EdME OE, EEtOE EE EO E 1/2 E+EE +EO=PEaE xE/2.
- (E) +EbiEO E/2 EHE EO Star Delta Starter.
- (EO) bO. EO EE ESa|EdE+1/2 +EE i+ESa=(E+EE E+1/2.
- (b) OEO EMO] EO 1/2hEVaEdE? {EO-BxE VEO E] EO.

(ENGLISH)

[TIME ALLOWED—3 HOURS]

(MARKS—100)

BASIC ENGINEERING, ELECTRICAL, ELECTRONICS AND COMPUTER SKILL (THEORY-I)**Marks**

1. (a) Fill in the blanks (any *five*) :— 10
- (i) Do not use clothes at the time of working on machine.
 - (ii) Mouse have two types such as mechanical mouse and mouse.
 - (iii) On the desktop there are.....
 - (iv) Mixture of Tetrachloride & BCF is used as in fire extinguisher.
 - (v) Electric current is measured in
 - (vi) If color code is not given on resister then value of that resister is
- (b) State *true* or *false* (any *five*) :— 5
- (i) Windows XP is a computer operating system.
 - (ii) Inductor and Capacitor used in filter circuit.
 - (iii) Capacitor not resist D.C. current.
 - (iv) Wire gauge is used to measure length of wire.
 - (v) Rawl punch is used to drill hole.
 - (vi) Power factor of single phase motor is lower than three phase motor power factor.
- (c) Write long forms of following (any *five*) :— 5
- (i) EMF (iv) ICTP
 - (ii) PVC (v) DOL
 - (iii) SWG (vi) CPU.
- (d) Match the pair :— 5
- | ‘A’ Column | ‘B’ Column |
|-----------------------|--------------------------|
| (i) D.C. Series motor | (a) Ceramic |
| (ii) Diode | (b) Floppy disc |
| (iii) Capacitor | (c) Application software |
| (iv) Hardware | (d) Railway engine |
| (v) Notepad | (e) Zener |
| | (f) Operating system. |

[turn over

CON 633

Marks

2. Answer the following any *two* questions. :— 16
- (a) What is transformer? Give its type.
 - (b) What are the reasons of fire due to electricity and what are the remedies?
 - (c) What are the safety precautions to avoid electric shock?
 - (d) What is earthing? Explain its importance.
3. Answer the following any *two* question :— 16
- (a) Explain the safety precaution taken at the time of working in workshop.
 - (b) Explain Electron theory.
 - (c) Describe Faradays Law of Electromagnetism.
 - (d) Describe working principle of diode.
4. Give the answer in brief (any *two*) :— 16
- (a) Write procedure of creating short-cut for using computer.
 - (b) How to take care and maintenance of battery ?
 - (c) List the insulators used in electric work and state their uses.
 - (d) What are the input and output devices of computer ? Explain it.
5. Write short notes (any *four*) :— 16
- (a) Soldering of conductor.
 - (b) Uni-junction transistor.
 - (c) Importance of computer in today's life.
 - (d) Flemings left hand rule.
 - (e) CPU
 - (f) Screw driver.
6. Attempt the following. (any *two*) :— 16
- (a) Which are the possible causes if motor is starting but not taking load ?
 - (b) Explain with figure—Star Delta Starter.
 - (c) What are the types of DC motor and give its application.
 - (d) What is mean by semiconductor ? Explain p-n junction in detail.
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