

S.B. Roll No.....

UTILIZATION OF ELECTRICAL ENERGY
6TH Exam/Elect/EEE/5224/6921/May-2017

Duration: 3 Hrs.

M.Marks:75

SECTION-A

Q 1.Fill in the blanks: -

10x1.5=15

- a) The gas used as refrigerant in refrigerator is
- b) For traction work, the best suited motor is.....
- c) Dielectric heating is used for heating.....
- d) The positively charged ions are called.....
- e) Various methods used for electric braking are
- f) Butt welding is used for welding.....
- g) The size of room air conditioner is measured in.....
- h) Candela is the unit of
- i) Motor normally used for crane is.....
- j) Anodising is defined as

SECTION-B

Q2. Attempt any five question: -

5x6=30

- a. What are different types of resistance electric welding?
- b. Explain with a sketch, principle of sodium vapor lamp.
- c. State & explain Faraday's laws of electro-deposition.
- d. Discuss advantages and disadvantages of electric drive over non- electric drive.
- e. Draw and explain electric circuit used in air conditioners.
- f. Define
 - i) Crest speed ii) Average speed iii) schedule speed.

SECTION-C

Q3. Attempt any Three question:-

3x10=30

- i. What is arc welding? Explain MIG and TIG arc welding process.
- ii. Explain with help of a neat sketch the working of fluorescent lamp with glow type starter.
- iii. Explain dielectric heating. What are its applications in various industrial fields?
- iv. With the help of neat diagram, explain the working of various parts of locomotive.
- v. Define electric braking. Explain the plugging & rheostatic braking in detail.