

SSIT POLYTECHNIC, KALAKAD, MAYURBHANJ

4TH SEMESTER 1ST INTERNAL EXAMINATION 2023-2024

SUB- EC-1 & EM

BRANCH – EE & EE(I&C)

FULL MARK -20

TIME – 1 HOUR

1. Answer all question –

(2*5= 10)

- (a) What is DC Generator & Types of DC Generator.**
- (b) What is Commutator & Its use .**
- (c) What is Armature & Its use .**
- (d) What is Brake horse power.**
- (e) What is Back emf & its Formula.**

2. Answer all .

(5*2= 10)

- (a) A 100 kw , 240 v Shunt generator has a field resistance of 55 ohm & Armature resistance of 0.067 ohm . Find the Full load generated voltage .**
- (b) Find the useful Flux per pole on no load of 250 v ,6 pole shunt motor having a wave connected armature winding with 220 conductor . The armature resistance is 0.2 ohm . the armature current is 13.3 A at the no load speed of 908 rpm .**