Totalpage=02

End Semester Examination (ESE), Aug 2020

Semester: 6th (Electrical)

Subject: Switchgear and Protection

Subject Code: TE AEL-1603 E ASSAM SCTE ASSAM SCTE ASSAM SCTE ASSAM SCTE ASSAM SCTE ASSAM New Syllabus/Old Syllabus SSAM SCTE ASSAM SCTE ASSAM SCTE ASSAM SCTE ASSAM SCTE ASSAM Total Marks: 56 Marks

SCIE ASSAM SCIE ASSAM

Time: 2.30 Hrs

SCTE ASSAM SCTE ASSAM All questions are compulsory ASSAM SCTE ASSAM

Q. No.	Description OF ASSAM SCTE ASSAM	Mark
Question no. 1	Choose the correct answer SCTE ASSAM SCTE ASSAM	1 x 5=5/
S CTE ASS	The relay used for feeder protection is CTE ASSAM	CTE ASSAM
S CTE ASS	(i) Under-voltage relay ASSAM SCTE ASSAM SCTE ASSAM S	
a cte Assi		CTE AS <mark>\$</mark> AM
SCTE ASSA	(iii)Thermal relay (iv) Buchholz relay	
S CTE ASS	A short circuit is identified by CTE ASSAM SCTE ASSAM	SCTE ASAM
SCTE ASS		CTE ASSAM
b cte ass.	a (ii) Heavy current flow assam scre assam scre assam s	CTE AS 1 AM
SCTE ASSA	(iii) Voltage drop (iv) Voltage rise	CTE SCCTE
SCIE ASS	The arc voltage in a circuit breaker is	CTE ASSAM
	(i) In phase with the arc current ASSAM SCTE ASSAM	
C CTE ASS	(ii) lagging the arc current by 900 sam scte assam.	
SCTE ASSA	(iii) leading the arc current by 900 AM SCIE ASSAM (iv) lagging the arc current by 1800	CTE ASSAM
301E A337	TIVI SELE ASSAIVI SULE ASSAIVI SULE ASSAIVI SULE ASSAIVI SULE ASSAIVI S SE ₆ gas	SCIE ASSAM
SCTE ASS	(i) Is Toxic CTE ASSAM SCTE ASSAM SCTE ASSAM SCTE ASSAM S	SCTE ASSAM
	A'(ii) Is electronegative TE ASSAM SCTE ASSAM SCTE ASSAM S	
SCTE ASS	(iii) Has a pungent smell SAM SCTE ASSAM SCTE ASSAM	CTE ASSAM
SCTE ASS	(iv) Is lighter than air	CTE ASSAM
SCTE ASSA	Purpose of back-up protection is (i) to increase the speed	CTE ASSAM
é CTE ASSA	(ii) to increase the reach SAM SCTE ASSAM SCTE ASSAM S	CTE AS \$ AM
SCTE ASS	na(iii) to leave no blind spota screassam screassam s	CTE ASSAM
SCTE ASS	(iv) to guard against failure of primary	SCTE ASSAM
Ougstion	NW SCTE ASSAM SCTE ASSAM SCTE ASSAM SCTE ASSAM SCTE ASSAM :	CTE ASSAM
Question no. 2 ^{CTE ASS}	AF ill in the blanks: A SCTE ASSAM SCTE ASSAM SCTE ASSAM S	5CT 1x5∓5
	The maximum value to which the fault	
a.	current reaches before the fuse melts is called	1
	the current.	
b.	In transmission lines, the ground wires run (above/below) the line conductors.	1

C		
c.	Minimum Oil Circuit Breakers use oil for	1
<u> </u>	purpose.	1
	The performance of distance relay is	
d.	governed by (Ratio of voltage and	1
	current/Impedance of the protected zone).	
e cte Assi	Buchholz relay can detect faults	1
	(above/below) the oil level in the transformer.	SCTE ASSAM
SCTE ASS.	AM SCTE ASSAM SCTE ASSAM SCTE ASSAM SCTE ASSAM SCTE ASSAM S	SCTE ASSAM
Question no. 3	Answer in brief:	3x5=15
(a)	Define Pick up value and Reset value	3
SCT (b) S	Define Plug setting multiplier (PSM)	SCTE ASSAM
SCT(c)S	What is Restriking Voltage and Recovery	CTE ASSAM
SCTE ASS.	Noltage? M SCTE ASSAM SCTE ASSAM SCTE ASSAM SCTE ASSAM S	3 SCTE ASSAM
$s_{c_{\tau}}(d)_{s_{\tau}}$	What is meant by voltage surge?	сте АЗАМ
(e)	What is an earth wire?	3
Question no. 4 ^{CTE ASS}	Answer the following: ASSAM SCTE ASSAM SCTE ASSAM :	4x4=16
SCT(a)S	What is a Protective Relay? What are its ASSAM	CTE ASSAM
SCTE ASS	essential elements? SCTE ASSAM SCTE ASSAM SCTE ASSAM	2+2=4 SCTE ASSAM
/4 1		
(b)	Compare between fuse and circuit breakers.	SCTE A
scr(b)s (c) SCTE ASS	Compare between fuse and circuit breakers. What is meant by protective angle? Give its value for reliable protection.	SCTE ASAM SCTE AS 4 AM
	What is meant by protective angle? Give its value for reliable protection. List the causes of overvoltages and the	SCTE ASAM SCTE ASSAM
(c) SCTE ASS.	What is meant by protective angle? Give its value for reliable protection. List the causes of overvoltages and the	SCIF ASAM
SCTEASS, SCTEASS, SCTEASS, Questions,	What is meant by protective angle? Give its value for reliable protection. List the causes of overvoltages and the	SCIE ASAM SCIE ASSAM SCIE ASSAM SCIE SCCIE
sct (d) s	What is meant by protective angle? Give its value for reliable protection. List the causes of overvoltages and the protective schemes used. SAM SCIE ASSAM SCIE ASSAM	SCIE ASAM SCIE ASSAM SCIE ASSAM SCIE ASSAM
SCTE ASS. SCTE ASS. Questions, no. 5	What is meant by protective angle? Give its value for reliable protection. List the causes of overvoltages and the protective schemes used. Write short notes on (any three): H.R.C. Fuse	CTE ASAM CTE ASSAM CTE SCCTE STE ASSAM CTE ASSAM 5 CTE ASSAM 5 CTE ASSAM
SCTE ASS. Questions no. 5 (a)	What is meant by protective angle? Give its value for reliable protection. List the causes of overvoltages and the protective schemes used. Write short notes on (any three):	CTE ASSAM CTE ASSAM CTE SCCTE 5
SCTE ASS. Questions no. 5 (a)	What is meant by protective angle? Give its value for reliable protection. List the causes of overvoltages and the protective schemes used. Write short notes on (any three): H.R.C. Fuse Core-Balance leakage protection of power	CTE ASAM CTE ASSAM CTE SCCTE STE ASSAM CTE ASSAM 5 CTE ASSAM 5 CTE ASSAM
CCTE ASS. SCTE ASS. Questions no. 5 (a) SCTE ASS.	What is meant by protective angle? Give its value for reliable protection. List the causes of overvoltages and the protective schemes used. Write short notes on (any three): H.R.C. Fuse Core-Balance leakage protection of power transformer	CTE ASSAM CTE ASSAM CTE ASSAM CTE ASSAM 5 CTE ASSAM 5 CTE ASSAM CTE ASSAM CTE ASSAM CTE ASSAM

SCTE ASSAM SCTE ASSAM SCTE ASSAM SCTE ASSAM SCTE ASSAM SCTE ASSAM SCTE ASSAM

SCTE ASSAM SCTE ASSAM SCTE ASSAM SCTE ASSAM SCTE ASSAM SCTE ASSAM

SCTE ASSAM SCTE ASSAM SCTE ASSAM SCTE ASSAM SCTE ASSAM SCTE ASSAM

SCTE ASSAM SCTE ASSAM SCTE ASSAM SCTE ASSAM SCTE ASSAM SCTE ASSAM

SCTE ASSAM SCTE ASSAM SCTE ASSAM SCTE ASSAM SCTE ASSAM SCTE ASSAM

SCTE ASSAM SCTE ASSAM SCTE ASSAM SCTE ASSAM SCTE ASSAM SCTE ASSAM

SCTE ASSAM SCTE ASSAM SCTE ASSAM SCTE ASSAM SCTE ASSAM SCTE ASSAM

SCTE ASSAM SCTE ASSAM SCTE ASSAM SCTE ASSAM SCTE ASSAM SCTE ASSAM SCTE ASSAM

SCTE ASSAM SCTE ASSAM SCTE ASSAM SCTE ASSAM SCTE ASSAM SCTE ASSAM SCTE ASSAM SCTE ASSAM

SCTE ASSAM SCTE ASSAM SCTE ASSAM SCTE ASSAM SCTE ASSAM SCTE ASSAM SCTE ASSAM SCTE ASSAM