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End Semester Examination (ESE), Aug 2020

Semester: 6th (Electrical)

Subject: Switchgear and Protection

Subject Code: EL-603

New Syllabus/Old Syllabus

Total Marks: 56 Marks

Time: 2.30 Hrs

All questions are compulsory

Q. No.	Description	Mark
Question no. 1	Choose the correct answer	1x5=5
a.	The relay used for feeder protection is (i) Under-voltage relay (ii) Translay relay (iii) Thermal relay (iv) Buchholz relay	1
b.	A short circuit is identified by (i) No current flow (ii) Heavy current flow (iii) Voltage drop (iv) Voltage rise	1
c.	The arc voltage in a circuit breaker is (i) In phase with the arc current (ii) lagging the arc current by 90° (iii) leading the arc current by 90° (iv) lagging the arc current by 180°	1
d.	SF ₆ gas (i) Is Toxic (ii) Is electronegative (iii) Has a pungent smell (iv) Is lighter than air	1
e.	Purpose of back-up protection is (i) to increase the speed (ii) to increase the reach (iii) to leave no blind spot (iv) to guard against failure of primary	1
Question no. 2	Fill in the blanks:	1x5=5
a.	The maximum value to which the fault current reaches before the fuse melts is called the _____ current.	1
b.	In transmission lines, the ground wires run _____ (above/below) the line conductors.	1

