

Shree H.N.Shukla College of Science Rajkot B.Sc. (Sem. - III) (CBCS) [301-PHYSICS] UNIT TEST-2018

| Student's Name: | DATE: | |
|---|---|------|
| Roll no.: | Total marks- 28 | |
| Q-1 Givethe followinganswer[08] | | |
| polarity supply voltage? 5) What is condition between stabilization? 6) Write the product rules for 7) i.i=, i.j =, i x i = | nsistor biasing? cion? with provides god Q point stability with a single of I_1 and I_B in voltage divider method for better or gradients. | |
| Q-2 Give the followingar | nswer (Any Two) | [04] |
| | mal Runway". se-emitter voltage causes a change of 100 μ A in out resistance of transistor. | the |
| Q-3 Give the following a | nswer(Any Two) | 06] |
| voltage V _{CE} . Giver that R1 2. Derive General expression | ation region of C-E transistor. (With graph) | er |
| Q-4 Give the following a | nswer (Any Two) [10] |] |
| achieved by this method? 2. Discuss the performance of the second of the performance of the second | circuit in detail. How stabilization of operating is of transistor amplifier. $\overrightarrow{B}\cdot\nabla$) $\overrightarrow{A}-(\overrightarrow{A}\cdot\nabla)\overrightarrow{B}+\overrightarrow{A}(\nabla\cdot\overrightarrow{B})-\overrightarrow{B}(\nabla\cdot\overrightarrow{A})$. orems of calculus and gradients. | 3 |