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**SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR**  
(AUTONOMOUS)**B.Tech III Year II Semester Regular & Supplementary Examinations October-2020**  
**FARM MACHINERY AND RENEWABLE ENERGY RESOURCES**

(Agricultural Engineering)

Time: 3 hours

Max. Marks: 60

(Answer all Five Units 5 x 12 = 60 Marks)

**UNIT-I****1** What are the different types of impact cutter? Explain them **12M****OR****2** What is reaper? Explain about animal drawn reaper **12M****UNIT-II****3 a)** What is threshing? **3M****b)** Explain about principle of threshing and different methods of threshing. **9M****OR****4** What are the different types of threshing cylinders? Explain them with neat sketch. **12M****UNIT-III****5** How do you differ pull type and self-propelled type combine? Explain about them. **12M****OR****6** Distinguish between groundnut digger shaker and potato harvester. **12M****UNIT-IV****7** Explain briefly about principle of natural and forced convection drying system. **12M****OR****8** Write a short notes on**a)** P-n junction **4M****b)** Solar cell **4M****c)** PV system **4M****UNIT-V****9** Explain in briefly about components of wind energy conversion systems. **12M****OR****10** A village consisting of 98 families, each family consisting of 5 persons (adults). Two children are equivalent to one person. Village survey report gives the following information about cattles. Cows=102, Oxes=124, Buffalo=52, Pig=3. A community bogas plants is to be designed only for cooking an house lighting. **12M**

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