A-3041
B. Sc. (Sem. III) Examination
March / April – 2015
Renewable Energy Sources
(GEC)
(New Course)

Time : Hours] [Total Marks : 50

(1)  

(2) Prashnoma upayogma bhiydi sabajao tathma pravishit artham aaye.
(3) Jhura jhalay tya svaraj aahuti diaro.
(4) Jhurdi bhalena aks prashna purna gufa dhashiye.

1. Neechena prashna doukma jawab apno : 8
(1) Sourkooma kal virjnaan kaal virjenaam praptam talam ?
(2) Soura avyakt (virjna swaroop) aapna jawab apne.
(3) Virjena swaroop swaroop jhalay.
(4) Virjna aane aarhyata (pavre) aane andhok jhalay.
(5) Pawnakta khaa sikhant par aarhy kare ?
(6) Soura virjena utpadan mate kaal shasthaa jhalayut ?
(7) Upaajen sanjog kaal aarhy jhalay.
(8) Virjna ane tare shu ?

2. Jawabamut utpadan jhalayi virjnaa utpadan karvaniscari santun purnan karo. 14
Jawabamut virjena aapno jhalay.

Botha

2. Sambal takthi sanjog aane sanjogprichh sanjog kaal purnan karo. 14

A-3041] 1 [Contd...
Instructions: (1) As per the Instruction No. 1 of Page No. 1.
(2) Symbols used in questions have their usual meaning.
(3) Draw neat diagram wherever necessary.
(4) Figure to the right indicate full marks of the question.

1. Answer the following questions in brief as directed:
   (1) In solar-cell which energy is converted into which energy?
   (2) Define solar constant (energy flux).
   (3) State different forms of energy.
   (4) State the units of energy and power.
   (5) On which principle wind-mill working?
   (6) Which phenomenon is responsible for the production of solar energy?
   (7) State the function of thermal collector.
   (8) What is meant by energy?

2. Describe the method of generation of electricity by hydro-electric plant. State the merits of hydro-electric energy.

OR

2. Describe flat plate collectors and focussing collectors in detail.

A-3041] 2 [Contd...
3 Describe the method of obtaining energy from tides. Prove that the maximum power developed is \( P_{\text{max}} = \frac{2 \rho A g R^2}{8.92 \times 10^4} \) in this method.

OR

3 Stating the types of geothermal sources of energy, describe any one in detail.

4 Answer any two of the following:

(1) Describe direct Solar energy.
(2) Write short note on Solar Cooker.
(3) Describe the merits and demerits of wind energy.
(4) Write short note on solar cell.