SAMPLE

[No. of Questions : 05 ]
[No. of Printed Pages : 13 ]

PART - II
GSC- GENERAL SCIENCE

Time : 1½ Hours]
[Full Marks : 50

Verifed and found correct

PART - II
SUBJECTIVE

REGULAR
AR - 16

2014
AH

Signature of the Scrutiniser
Regd. No.

Sign. of the Dy. Chief Examiner
Regd. No.

Sign. of the Chief Examiner
Regd. No.

Total Marks in words .........................................................

Sign. of the Examiner
Date of Evaluation..............................................
1. (a) Explain with the labelled diagram the light refraction through a glass cube in the air? What is lateral displacement?

OR – दिखाइए।

बादल का उचित स्थान ऊँची तुलसी हृदान, अंद शरारत आँध्रकर ज्यों तेए। ज्यों तेए, तुलसी दुर्गी 

Describe with an experiment how the dispersion is occurred in a glass prism. Why the rainbow is formed?
Write Flemings Right Hand and Flemings Left Hand Rule?

OR – লিখ

Write Ohm’s Law and with mathematical derivation, define resistance and write its unit?
(c) Why the eye is not able to see properly. If the object will be the distance less than 25 cm?

OR – লিখ

why the eye is not able to see properly. if the object will be the distance less than 25 cm?

In electric circuit, if 5A fuse where it is used. How many electric bulb is used?

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2. (a) Write the name of first compound of saturated hydrocarbon? Explain its configuration by electron dot.

OR – লিখ

what is covalent bond? why carbon is not forming electrovalent compounds?
What is rusting in iron? Why it is formed? How rusting is protected?

OR

What is balanced chemical equation with an example? Why it is balanced? What is oxidants?
Why the pain is felt it the leaf of Bichuati penetrated in the body?

OR

Why alminium is used for utensils, inspite of it is a highly reactive element?

3. (a) What is a unit of electricity? If the refrigerator with 400W, run for 8 hours per day, how much electric charge we will pay for 30 days at the rate of 04 rupees per unit?

OR

In a circuit of 20 ohm resistance, compare the power?

(i) One ohm and 2 ohm resistance with 6V battery in series connection.
(ii) 12 ohm and 2 ohm resistance with 4V battery in parallel connection.
(b) KERNEL ANCED ROOTTED ROOTTED SCRATCHED OR 2

Draw the configuration of two cyclic carbon compound?

OR – जिहा

খ䢊ঙ প্রান্তিত ও মাদা প্রান্তিত উকি খুরাষার pH স্তর ওটী নুলম্বী

Draw pH scale according to increase acidic and basic characteristics?
(c) Draw a labelled diagram of ovary of a plant.

OR

Draw a labelled diagram of external feature of human heart.

(d) Write two bad effects of fossil fuel.

OR

Write role of decomposers in ecosystem.
4. (a) What is photosynthesis? Explain light reaction?

**OR** – তিনি

What is mitosis? Write what are different stages of mitosis?

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(b) Give notes on structural components of ecosystem?

**OR** – তিনি

Describe the different parts of a Gobar Gas Plant?
5. (a) “缑ୀଜିର ରଂକି” ପ୍ରଦଶିତ କରନ୍ତୁ କଥା କେପରା ହୋଇଇଛନ୍ତି?

Explain biological oxidation?

OR – ଲେଖିଏ

“ବିଶ୍ବାନାଟର କାଗରା” ପ୍ରଦଶିତ କରନ୍ତୁ କଥା କେପରା ହୋଇଇଛନ୍ତି?

Explain watershed management?

(b) ନ୍ତ୍ଯ ମାନଥ ମାନଥ କାହିରି ହୋଇଛନ୍ତି?

Write the structure and function of nerve cell?

OR – ଲେଖିଏ

ନ୍ତ୍ଯ ଅବଧାରତା ମାନଥ କାହିରି ହୋଇଛନ୍ତି?

Describe the function of Kidney other than excretion?
(c) Explain the endangered species with an example?

OR – লিখ

Write the types of fermentation?

(d) Write the two methods of family planning?

OR – লিখ

With an example, write what are homologous organ and analogous organ?