

SH-I/Env.Sc./101C-1(T)/18-19

B.Sc. Semester I (Honours) Examination, 2018-19**ENVIRONMENTAL SCIENCE****Course ID : 11811****Course Code : SHENV/101/C-1(T)**

Course Title : Earth and Earth Surface Processes

Time: 1 Hour 15 Minutes**Full Marks: 25***The figures in the margin indicate full marks.**Candidates are required to give their answers in their own words as far as practicable.*

1. Answer *any five* questions from the following: 1×5=5
 - (a) What do you mean by 'Nabula'?
 - (b) During which geological period did the earth become oxygen rich?
 - (c) What is 'Subduction'?
 - (d) What are the main difference between rocks and minerals?
 - (e) Who first coin the term 'Isostasy.?'
 - (f) What do you meant by 'Bhabar'?
 - (g) What is 'Jig-Saw-Fit'?
 - (h) What is 'Discontinuity'?

 2. Answer *any two* questions from the following: 5×2=10
 - (a) Differentiate the concept of Airy and Pratt regarding Isostatic theory. 5
 - (b) Discuss the various process of physical weathering with examples. 5
 - (c) Describe the major forces responsible for continental drift. 5
 - (d) Describe the major process related with glacier erosion. 5

 3. Answer *any one* question from the following: 10×1=10
 - (a) Explain the origin and evaluation of folded and faulted mountain system in light of plate tectonic theory. 10
 - (b) Critically evaluate the evolution of river system in Indian peninsular region. 10
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SH-I/Env.Sc./102C-2(T)/18-19

B.Sc. Semester I (Honours) Examination, 2018-19**ENVIRONMENTAL SCIENCE****Course ID : 11812****Course Code : SHENV/102/C-2(T)**

Course Title : Physics and Chemistry of Environment

Time: 1 Hour 15 Minutes**Full Marks: 25***The figures in the margin indicate full marks.**Candidates are required to give their answers in their own words as far as practicable.*

1. Answer *any five* questions from the following: 1×5=5
 - (a) Define limnological mixed layer.
 - (b) Which aliphatic hydrocarbons have single covalent bonds? Give examples.
 - (c) Differentiate molality and molarity.
 - (d) Which elements have the highest and lowest ionization potential? Mention their particular ionization energy associated.
 - (e) What do you mean by redox reaction? Give example.
 - (f) What types of acids are associated with acid rain?
 - (g) What is KH?
 - (h) Define base exchange in context of soil chemistry.

 2. Answer *any two* questions from the following: 5×2=10
 - (a) Briefly describe the main features of Gaussian plume model. Name two Gaussian models used in Industrial area analysis. 3+2=5
 - (b) Explain Polarity. Arrange the functional groups in descending order on the basis of Polarity. 2+3=5
 - (c) Describe the synthesis of synthetic polymers. 5
 - (d) Discuss the nitrogen cycle. 5

 3. Answer *any one* question from the following: 10×1=10
 - (a) Describe the adverse effect of acid rain on the environment. 10
 - (b) Describe the different process of heat transfer in the atmosphere. 10
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B.Sc. Semester I (Programme) Examination, 2018-19

ENVIRONMENTAL SCIENCE

Course ID: 11818

Course Code: SP/ENV/101/C-1A(T)

Course Title: Fundamentals of Environmental Science and Social Issues

Time: 1 Hour 15 Minutes

Full Marks: 25

*The figures in the right hand side margin indicate marks.
Candidates are required to give their answers in their own words
as far as practicable.*

*দক্ষিণ প্রান্তস্থ সংখ্যাগুলি প্রশ্নের পূর্ণমানের নির্দেশক।
পরীক্ষার্থীদের যথাসম্ভব নিজের ভাষায় উত্তর দিতে হবে।*

1. Answer any five of the following:

1×5=5

নিম্নলিখিত যে-কোনো পাঁচটি প্রশ্নের উত্তর দাও :

(i) What is pollution?

দূষণ কী?

(ii) Mention two impacts of climate change.

জলবায়ু পরিবর্তনের দুটি প্রভাব উল্লেখ করো।

(iii) What are resources?

সম্পদ কী?

(iv) What is social environment?

সামাজিক পরিবেশ বলতে কী বোঝো?

(v) Mention two major environmental problems.

দুটি প্রধান পরিবেশগত সমস্যার উল্লেখ করো।

(vi) What is social justice?

Social justice কী?

(vii) Who are 'displaced persons'?

'Displaced persons' কাদের বলে?

(viii) In which year Appiko Movement was started?

'Appiko Movement' কত সালে শুরু হয়েছিল?

2. Answer *any two* of the following: 5×2=10
- নিম্নলিখিত যে-কোনো দুটি প্রশ্নের উত্তর দাও :
- (i) Write down the causes behind forest resource depletion. 5
 বনজসম্পদ হ্রাসের কারণগুলি লেখো। ৫
- (ii) Discuss the importance of environmental ethics. 5
 ‘Environmental ethics’-এর গুরুত্ব লেখো। ৫
- (iii) Write down the aims and objectives of Land Acquisition Act, 1894. 5
 Land Acquisition Act, 1894-এর লক্ষ্য ও উদ্দেশ্যগুলি লেখো। ৫
- (iv) Discuss the major impacts of industries on environment. 5
 পরিবেশের উপর শিল্প কারখানার প্রভাব আলোচনা করো। ৫
3. Answer *any one* of the following: 10×1=10
- নিম্নলিখিত যে-কোনো একটি প্রশ্নের উত্তর লেখো :
- (i) What was the role of chipko movement in protection of environment? Discuss the reasons of resettlement. 4+6=10
 পরিবেশ সুরক্ষায় চিপকো আন্দোলনের ভূমিকা কী ছিল? পুনর্বাসনের কারণগুলি আলোচনা করো। ৪+৬=১০
- (ii) What are the steps to be followed to resist global warming? Discuss the need of environmental education among people. 6+4=10
 বিশ্ব-উষ্ণায়ণ প্রতিকারের পদ্ধতিগুলি উল্লেখ করো। জনসাধারণের উপর পরিবেশ শিক্ষার প্রয়োজনীয়তা আলোচনা করো। ৬+৪=১০
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