

**Write the following information in the first page of Answer Script before starting answer**

ODD SEMESTER EXAMINATION: 2020-21

Exam ID Number \_\_\_\_\_

Course \_\_\_\_\_ Semester \_\_\_\_\_

Paper Code \_\_\_\_\_ Paper Title \_\_\_\_\_

Type of Exam: \_\_\_\_\_ (Regular/Back/Improvement)

**Important Instruction for students:**

1. Student should write objective and descriptive answer on plain white paper.
2. Give page number in each page starting from 1<sup>st</sup> page.
3. After completion of examination, Scan all pages, convert into a single PDF, rename the file with Class Roll No. **(2019MBA15)** and upload to the Google classroom as attachment.
4. Exam timing from 10am – 1pm (for morning shift).
5. Question Paper will be uploaded before 10 mins from the schedule time.
6. Additional 20 mins time will be given for scanning and uploading the single PDF file.
7. Student will be marked as ABSENT if failed to upload the PDF answer script due to any reason.

**M.Sc. ENVIRONMENTAL SCIENCE  
THIRD SEMESTER  
CLIMATE CHANGE & ENVIRONMENTAL MANAGEMENT  
MEV-302**

Duration : 3 hrs.

Full Marks : 70

**( PART-A : Objective )**

Time : 20 min.

Marks : 20

*Choose the correct answer from the following:*

**1X20=20**

1. Average temperature of the earth is:  
a. 15 °C  
b. 50 °C  
c. -18 °C  
d. 33 °C
2. Temperature of the earth in absence of greenhouse gases will be:  
a. 15 °C  
b. 50 °C  
c. -18 °C  
d. 33 °C
3. Which is the most abundantly found greenhouse gas?  
a. Carbon dioxide  
b. Water vapor  
c. Methane  
d. Nitrous oxide
4. Global warming potential is more in:  
a. Water vapour  
b. Methane  
c. Carbon dioxide  
d. CFC
5. Human activities in the recent past have caused the increased concentration of carbon dioxide in the atmosphere, but a lot of it does not remain in the lower atmosphere because of:  
1. its escape into the outer stratosphere.  
2. the photosynthesis by phyto-plankton in the oceans.  
3. the trapping of air in the polar ice caps.  
Which of the statements given above is/are correct?  
a. 1 and 2  
b. 2 only  
c. 2 and 3  
d. All
6. "Sequester" means to:  
a. Contribute  
b. Hide away  
c. Add  
d. None
7. The most effective biome for carbon sequestration is:  
a. Forest  
b. Grassland  
c. Cropland  
d. Wetlands
8. CDM refers to:  
a. Clean Development Mechanism  
b. Clear Development Mechanism  
c. Clean Development Machinery  
d. Carbon Deduction Mechanism
9. SDGs are targeted by:  
a. UN General Assembly  
b. UNICEF  
c. UNEP  
d. All

10. IPCC means:
- |  |  |
|--|--|
| a. Intergovernmental Panel on Climate Change   | b. Intergovernmental Panel for Climate Change  |
| c. Intergovernmental Pattern on Climate Change | d. Intergovernmental Panel for Climate Control |
11. What is the approach for mitigation of an impact in EIA?
- |                |                  |
|----------------|------------------|
| a. Replace     | b. Cessation     |
| c. Dismantling | d. None of these |
12. Who issues guidelines for categorization of B1 & B2 projects?
- |         |           |
|---------|-----------|
| a. EAC  | b. MoEFCC |
| c. SEAC | d. GoI    |
13. The project that will not fall under GC guidelines will be approved by:
- |           |        |
|-----------|--------|
| a. SEAC   | b. EAC |
| c. MoEFCC | d. SEA |
14. \_\_\_\_\_ criteria should be present for the impact to occur in a project.
- |           |              |
|-----------|--------------|
| a. Nature | b. Pathway   |
| c. Type   | d. Threshold |
15. River valley project is included under \_\_\_\_ project category.
- |               |      |
|---------------|------|
| a. A          | b. B |
| c. Both A & B | d. C |
16. How many SDGs are there?
- |       |       |
|-------|-------|
| a. 8  | b. 10 |
| c. 17 | d. 18 |
17. Which is a renewable resource?
- |                 |          |
|-----------------|----------|
| a. Solar energy | b. Water |
| c. Air          | d. All   |
18. What is the full form of UNFCCC with respect to global warming convention?
- |  |   |
|--|---|
| a. United Nations Framework Convention on Climate Change | b. United Nations Federation Convention on Climate Change |
| c. United Nations Framework Center on Climate Change     | d. United Nations Federation Center on Climate Change     |
19. Which one of the following land use causes global warming?
- |                                      |                        |
|--------------------------------------|------------------------|
| a. Increase in the fertility of soil | b. Surface reflectance |
| c. Adopting organic farming online   | d. Forestation         |
20. This is not a possible adverse effect of global warming:
- |                        |                                   |
|------------------------|-----------------------------------|
| a. Sea level rise      | b. An increase of UVB radiation   |
| c. Retreat of glaciers | d. Extraordinary weather patterns |

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**( PART-B : Descriptive )**

**Time : 2 hrs. 40 min.**

**Marks : 50**

**[ Answer question no.1 & any four (4) from the rest ]**

1. What is climate change? Write about consequences of climate change. 3+7=10
2. What is enhanced greenhouse effect? Write about GHGs. 3+7=10
3. a. What is Carbon sequestration? 2+2+6=10  
b. Why is it important?  
c. Write down the different ways of carbon sequestration in details.
4. Write notes on: (*any two*) 5+5=10  
a. IPCC      b. REDD+      c. CDM      d. Kyoto protocol
5. Define EIA. How EIA is conducted? 2+8=10
6. What do you mean by environmental auditing? Enumerate the procedure for environmental auditing. 2+8=10
7. Write short notes on: 5+5=10  
a) Sustainable Development Goals.  
b) Challenges to meet sustainability.
8. Write about environmental priorities in India for sustainable development. 10

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