

FIRST SEMESTER

**AUTO/CHEMICAL/ETE/OPTO ELEX./ELECT.
ELEX./MECH./RAC/MOM/OPHTHALMIC/
ARCH. ASSTT./COM. SC./CHM/IT/M.S./
M.&M.S./F.T./APP.VIDEO./ELEX. & INSTRU./
PTDC CME**

SECOND SEMESTER

**CEMENT TECH./CIVIL/CTM/ELECT./PRPC/
PRODUCTION ENGG./PLASTIC TECH./
PRINTING TECH./TEXTILE TECH./ARCH. & I.D.
COMMUNICATION SKILL**

*Time : Three Hours**Maximum Marks : 70***Note :** Attempt all questions.

1. Choose the correct answer. 1 each
- i) What does 'Apex' mean?
- (a) Top
(b) Bottom
(c) Flat
(d) Round

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- ii) To the people on the earth, the moon looks like:
- (a) Sphere
(b) Disc
(c) Circle
(d) Square
- iii) The pendulum of the clock:
- (a) Roams
(b) Oscillates
(c) Shakes
(d) Rolls
- iv) Transparent, natural substances like quartz is called:
- (a) Spasm rgpvonline.com
(b) Corrosive
(c) Pearl
(d) Crystal
- v) 'Act of stopping' is called:
- (a) Instruction
(b) Prevention
(c) Contribution
(d) Commence

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(3)

- vi) Bio-gas is:
- Ethane
 - Methane
 - Oxygen
 - Carbon dioxide
- vii) Combustion is the:
- Process of cooling
 - Process of burning
 - Combinations
 - Complements
- viii) The pen-name of William Sidney Porter is:
- R.K.Narayan
 - Oscar Wilde
 - O.Henry
 - Milton
- ix) The writer of the story 'The selfish Giant' is:
- Oscar Wilde
 - O.Henry
 - R.K.Narayan
 - Rabindranath Tagore

(4)

- x) Who was the saviour of Johnsy's life?
- Sue
 - Behrman
 - The Doctor
 - Johnsy herself

2. a) Answer the following questions (any four).
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- Why does the scientist use special words?
 - How can drinking of Sea-water lead to death?
 - Why do some of the routine factory accidents take place?
 - Why should we look for alternative sources of energy?
 - What does the term 'biosphere' describe?
 - Why do entrepreneurs avoid low risk situation?
 - What are the basic components of Environment?

(5)

- b) Write short note on any one of the following. 4
- Paradox of the world water problem.
 - Safety practices.
 - Solar energy storage.
 - Water pollution.

3. a) What are the Essentials of communication that help make communication effective? 6
- b) How are the barriers to communication removed? 6

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4. a) Give the summary of the story (any one) 6
- Astrologer's Day
 - The Last leaf
 - A letter to God
- b) Write a letter to a company, placing an order for the supply of Computers. 6

OR

Write an application for a job enclosed with the Resume.

(6)

5. a) Make a precis of the following passage in about One-third of its length and give a suitable title to it. 6

"Speech is a great blessing, but it can also be a great curse, for while it helps us to make our intentions and desires known to our fellows it can also, if we use it carelessly, make our attitude completely misunderstood. A slip of the tongue, the use of an unusual word or an ambiguous word, and so on may create an enemy where we hoped to win a friend. Again, different classes of people use different vocabularies, and the ordinary speech of an educated man may strike to an uneducated listener as showing pride, unwittingly we may use a word which bears a different meaning to our listener from what it does to man of our own class. Thus, speech is not a gift to use lightly without thought, but one which demands careful handling, only a fool will express himself alike to all kinds and conditions of men". rgpvonline.com

- b) Write a paragraph on any one of the given topic in about 150 words. 6
- My first day at college.
 - Importance of Communication Skill.
 - Importance of sports and games in our life.

(7)

6. Do as directed. 1 each
- a) Rewrite the following sentences into plural (Any two).
- A pen is filled with ink.
 - A flame never shoots out of a Volcano.
 - An engineer works out a route.
 - A car has a gear box.
- b) Insert articles wherever necessary:
- _____ book that I read yesterday, is very interesting. **rgpvonline.com**
 - He is studying _____ English.
- c) Fill in the blanks with appropriate prepositions (Any two).
- It has been raining _____ morning.
 - He died _____ Cholera.
 - The aero plane is moving _____ the west.
- d) Fill in the blanks with mustn't or needn't:
- He _____ eat such rich food, it makes him fat.
 - You _____ study as the examination is over.

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(8)

- e) Rewrite the following sentences choosing the correct verb from the parenthesis (any two)
- 'The thirty-nine steps' (was, were) Written by John Buchan
 - Some of the sugar (is, are) given to me.
 - Toast and porridge (is, are) my favourite breakfast. **rgpvonline.com**
 - Sincere efforts, not more advice (is, are) the need of the hour.
- f) Rewrite the following sentences in passive voice. Do not use by+agent (any two)
- I opened the window.
 - We expect good news.
 - People speak English all over the world



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SECOND SEMESTER

**AUTO/CHEMICAL/ETE/ OPTO ELEX./ ELECT.
ELEX./MECH./RAC/ELEX. & INSTRU./C.S./IT/
III SEM. PTDC**

ENVIRONMENTAL ENGINEERING & SAFETY

Time : Three Hours

Maximum Marks : 100

Note : (i) Attempt total **six** questions. Question No.1 (Objective type) is compulsory. From the remaining questions attempt any **five**.

कुल छः प्रश्नों को हल कीजिये। प्रश्न क्रमांक 1 (वस्तुनिष्ठ प्रकार का) अनिवार्य हैं। शेष प्रश्नों में से किन्हीं पाँच को हल कीजिये।

(ii) In case of any doubt or dispute, the English version question should be treated as final.

किसी भी प्रकार के संदेह अथवा विवाद की स्थिति में अंग्रेजी भाषा के प्रश्न को अंतिम माना जायेगा।

1. Choose the correct answer.

2 each

सही उत्तर का चयन कीजिए।

i) If water is acidic, then pH value will be

- (a) Less than 7 (b) More than 7
(c) Equal to 7 (d) None of these

यदि जल अम्लीय है तो उसका pH मान होगा

- (अ) 7 से कम (ब) 7 से ज्यादा
(स) 7 के बराबर (द) इनमें से कोई नहीं

ii) The following pollutant is responsible for depletion of Ozone layer

- (a) Ozone (b) C.F.C
(c) Aerosol (d) Smog

ओजोन परत के न्हास के लिये मुख्यतः उत्तरदायी प्रदूषक है

- (अ) ओजोन (ब) सी.एफ.सी.
(स) ऐरोसोल (द) स्मॉग

iii) The secondary air pollutant is

- (a) Fine particles (b) Coarse particles
(c) Sulphur compounds (d) Smoke

(3)

द्वितीयक वायु प्रदूषक है

- (अ) सूक्ष्म कण (ब) बड़े कण
(स) सल्फर के यौगिक (द) धुँआ

iv) Which type of treatment is done by trickling filter?

- (a) Preliminary (b) Primary
(c) Disinfection (d) Biological

च्यावि (Trickling) छन्ना द्वारा किस प्रकार का उपचार किया जाता है?

- (अ) प्रारम्भिक (ब) प्राथमिक
(स) रोगाणुनाशन (द) जैविक

v) Main source of acid rain is

- (a) Destruction of ozone layer
(b) Green house effect
(c) Sulphur dioxide
(d) Global warming

अम्लीय वर्षा का मुख्य कारण है

- (अ) ओजोन परत का न्हास (ब) ग्रीन हाउस प्रभाव
(स) सल्फर डाईआक्साइड (द) ग्लोबल वार्मिंग

(4)

2. a) What are responsibilities of employee and employer regarding health and safety? 6

नियोजक व नियोक्ता की स्वास्थ्य व सुरक्षा के बारे में क्या जिम्मेदारियाँ हैं?

b) What do you understand by chemical oxygen demand? 6

रासायनिक ऑक्सीजन माँग से आप क्या समझते हैं?

c) State the preventions and precautions of fire hazard. 6

अग्नि भयावह से बचाव के उपाय व सावधानियाँ बताइये।

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3. a) Draw a line diagram of temperature profile of atmosphere. 8

वायुमंडलीय तापक्रम प्रोफाइल का रेखाचित्र खींचिए।

b) Write the composition of natural air. How the air pollutants are classified as primary and secondary pollutants? Explain with examples.

प्राकृतिक वायु की संरचना लिखिए। वायु प्रदूषकों को प्राथमिक व द्वितीयक प्रदूषकों में कैसे विभाजित किया जाता है? उदाहरण सहित समझाइए। 10

(5)

4. a) Define any four of the following terms. 12

- i) Fog ii) Mist
iii) Dust iv) Smog
v) Aerosol

निम्नलिखित में से किन्हीं चार को परिभाषित कीजिए।

- i) कुहरा ii) तुषार
iii) धूल iv) स्मॉग
v) वायुविलय (एरोसोल)

b) Define the following: 6

- i) Environmental lapse rate
ii) Adiabatic lapse rate

निम्नलिखित की परिभाषा लिखिए।

- i) इन्वॉयर्समेंटल लेप्स रेट
ii) एडियाबेटिक लेप्स रेट

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5. a) Explain with sketch the working of Bag house filter. 10

बैग हाउस फिल्टर की कार्यविधि को चित्र सहित समझाइए।

(6)

b) Explain briefly the 'Absorption' and 'Adsorption' method for the the control of gaseous pollutants.

गैसीय प्रदूषकों को नियंत्रित करने की 'अवशोषण' एवं 'अधिशोषण' विधियों का संक्षेप में वर्णन कीजिए। 8

6. a) Explain the following operations in industrial waste water treatment. 6

- i) Proportioning
ii) Neutralization

औद्योगिक व्यर्थ जल के उपचार में निम्नलिखित क्रियाओं को समझाइये।

- i) समानुपातीकरण
ii) उदासीनीकरण

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b) Write the primary and secondary benefits of industrial waste treatment. 6

औद्योगिक अवशिष्ट पदार्थों के उपचार से होने वाले प्राथमिक एवं द्वितीयक लाभों को लिखिए।

c) Explain any one method of disposal of solid waste. 6

ठोस पदार्थों के विनिष्ठीकरण की किसी एक विधि को समझाइए।

(7)

7. a) How recovery of paper, glass, metal and plastic can be done from a waste? 6
 एक अवशिष्ट से काँच, धातु, पेपर, प्लास्टिक की पुनः प्राप्ति (रिकवरी) कैसे की जाती है?
- b) Explain briefly the 'Trapping' and 'Fumigating' plumes along with their sketch. 6
 'ट्रेपिंग' एवं 'फ्यूमिगेटिंग' प्लूम को चित्र सहित संक्षेप में समझाइए।
- c) Describe Environmental Protection Act 1986.
 पर्यावरण संरक्षण अधिनियम 1986 का वर्णन कीजिए। 6

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8. Write short notes on any four of the following: 18
- BOD
 - Inversion
 - Techniques of controlling noise
 - Air Quality standards
 - Electrostatic precipitator
 - Photochemical Smog

(8)

- किन्हीं चार पर संक्षिप्त टिप्पणी लिखिए।
- बी ओ डी
 - प्रतिलोमन
 - शोर नियंत्रण की तकनीकियाँ
 - वायु गुणवत्ता मानक
 - स्थिर विद्युत अवक्षेपक
 - प्रकाश रसायनिक स्मॉग



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