Common Entrance Test for
B. Tech (Marine Engineering)
UVPCE, Ganpat University
XXX 2012 (Question and Answer Book)

This is a model question paper, the final paper will be of similar level of difficulty or slightly different

Intend to test basic concepts and competence.

Name of the candidate: ⟹		Signature ⟹	
Code No.	Roll No.	Exam Room No.	

Write Code No. on each page in the given space

Signature of invigilator ⟹

Instructions to the Candidate: Maximum time allowed   **1.5 hours**

1. No calculators or mobile phones allowed.
2. Keep your admit card for viewing by the invigilator. Start writing only when asked to do so by the invigilator.
3. This booklet contains **9** printed pages. Check if any page is missing or not printed properly.
4. All answers to be written within the space provided with each question.
5. This paper has four sections. All questions are compulsory and must be answered in **English** only.
6. Use black or blue pen only for writing answers.
7. No candidate will be allowed to leave the room within first 45 minutes and last 10 minutes.
8. Do not exchange writing material (e.g. pen, paper, etc.) with any other candidate. If you need something, raise your hand to get attention of the invigilator.
9. **Advise: Spend about 30 minutes on each section.(Do not spend too much time on one section)**

For Official Use

Sect. 1 English (50 marks)			Sect. 2 Physics (50 marks)			Sect. 3 Chemistry (50 marks)			Sect. 4 Mathematics (50 marks)		
Q. No	Max Marks	Score	Q. No	Max Marks	Score	Q. No	Max Marks	Score	Q. No	Max Marks	Score
1	10		1	20		1	10		1-3	10	
2	10		2	5		2	10		4-5	10	
3	10		3	20		3	20		6	20	
4	10		4	5		4	10		7	10	
5	10										
Total			Total			Total			Total		
Signature of examiner/ dt			Signature of examiner / dt			Signature of examiner/ dt			Signature of examiner/ dt		
Name:			Name:			Name:			Name:		
Moderator's Name:				Signature & Date							

Section 1 English

Q1. Make Sentences (10 Marks)

Word	Write a sentence using the given word. (proper spelling and grammar)
.1	Common words in day to day use
.2	
.3	
.4	
.5	
.6	
.7	
.8	
.9	
.10	

Q2. Against the word given in column 1, write its opposite in Column II (10 Marks)

Column I	Column II opposite word	Column I	Column II opposite word
.1	.1	.6	.6
.2	.2	.7	.7
.3	.3	.8	.8
.4	.4	.9	.9
.5	.5	.10	.10

Q 3. In column II write the past tense of words given in column I (10 Marks)

Word	Past Tense	Word	Past tense
.1	.1	.6	.6
.2	.2	.7	.7
.3	.3	.8	.8
.4	.4	.9	.9
.5	.5	.10	.10

Q 4. In column II write the correct spelling against the word given in column I (10 Marks)

Miss-spelt word	Correct spelling	Miss-spelt word	Correct spelling
.1	.1	.6	.6
.2	.2	.7	.7
.3	.3	.8	.8
.4	.4	.9	.9
.5	.5	.10	.10

Q 5 Read the text given below, and answer questions (10 marks) (About 100 words)	Questions (fill in the Blanks)	
	5.1	**Where is --------? _____**
	5.2	**Where is----------? _____**
	5.3	**Where is ----------? _____**
	5.4	**What does-----------?_____**
	5.5	**What is it like? _____**

Section 2 Physics

Q 1   Out of the four given options only one is correct. √ (tick) only one A, or B, or C, or D. (20 Marks)

.1	Sun has _____ energy A) B) C)		.6	The weight of liquid displaced by a floating object is _____. A) B)

	D)			C) D)
.2			.7	A)
.3			.8	A)
.4			.9	
.5			.10	

Q 2   Write equation (formula) to represent **(5 Marks)**

(use symbol : acceleration - A,   mass - M,   force - F,   final velocity - V,
time – T,   initial velocity - U,   Acceleration due to gravity - g)

Q 3 In short - write the basic deference between the following pair of terms (20 Marks)
(Basic Physics)

.1 Weight	.1 Mass
.2	.2
.3	.3 .
.4	.4
.5	.5

Question 4   (5 marks) (1.5 marks for each and .5 marks for all correct answers)

Laws of Motion, Transfer of heat, physical states and properties, etc:

Section 3 Chemistry

Q 1. Short answer questions (15 Marks)

Write few words to describe each of the following within the given space (Properties of substances in day to day use – chemical reactions that takes place during phenomenon we face each day)
.1
.2
.3
.4
.5

Q2 Balance the following Equations: (10 marks)

1.
2.
3.
4.
5.

**Q 3   Out of the four given options only one is correct. √ (tick) only one A, or B, or C, or D.
(15 marks)**
(Properties of day to day – common items and phenomenon)

.1	Which is the hardest substance? (A) ; B); C); D)		.4	
.2			.5	
.3				

Q4   (10 Marks)
(Molecular weight, chemical formula, name of chemical from the given chemical formula, simple facts of chemical properties experienced in life)

.1 Given _____

.2 Chemical Formula for _____

.3 _____ is the formula for _____

.4 Which gas is produced when? _____.

.5 --------- water _____

Section 4 Mathematics – (You can use the last page for calculations)

Q1-3   Questions on Basic Geometry and trignometry

Q 4   State the formula for

Q 5 –   Physcal units & conversions

Q 6 Calculate within the given space (Basic arithmatic) (show calculation for each): 20 marks (4 for each)

5 questions on simple arithmetical solutions (questions) Averages; Percentage; Proportions; Requiring simple addition, multiplication, and division; Concept of speed, time

Q 7   Solve the equation (simple Algebra) (10 Marks/ 2 marks each)

Five questions on simple algebra (solving simple equations, finding values of x from given equations, expanding, multiplications, divisions, factors