

Name:	
Enrolment No:	

**UNIVERSITY OF PETROLEUM AND ENERGY STUDIES**  
**End Semester Examination, December 2018**

**Course: PORT PLANNING**

**Programme: MBA PSM**

**Time: 03 hrs.**

**Instructions:**

**Semester: III**

**Code: TRPS 8001**

**Max. Marks: 100**

**SECTION A**

S. No.	Statement of question	Marks	CO
Q 1	Statement of question		
a)	In bulk terminals – rail connection is must - why?	2	CO 1
b)	Name four types of dredgers – with one line need?	2	CO 1
c)	What are the function of the buoys – mention two?	2	CO 1
d)	Define a channel.	2	CO 1
e)	Give names of two data sources that can be used in forecasting the port cargo.	2	CO 2
f)	What do you mean by PPP? Explain in two lines.	2	CO 2
g)	Why do we consult the shipping lines while making a cargo forecast.	2	CO 2
h)	Riverine ports have more problems than sea ports- why?	2	CO 2
i)	What is bathymetric study?	2	CO 1
j)	Mention 4 challenges in a POL terminal?	2	CO 2

**SECTION B**

Q	Statement of question	Marks	CO
a)	Discuss on the need of EIA/EMP in ports.	4	CO 2
b)	Pre-construction surveys are essential for building a port – discuss.	4	CO 2
c)	Tariff setting in private ports differ from government ports in India – comment.	4	CO 3
d)	What critical success factors will you look at while setting up a port?	4	CO 3
e)	What specific issues are taken up while deciding on tanker terminals (mention 3)?	4	CO 3

f)	Suggest the right kind of facilities for a modern port.	4	CO 2
g)	Zoning is essential for a sustainable port – comment.	4	CO 3
<b>SECTION-C</b>			
Q	Statement of question	<b>Marks</b>	<b>CO</b>
Q 3	Do you agree that - “PPP is essential instruments in making India achieve the targeted port capacity?”	10	CO 4
Q 4	Scenario analysis is indispensable when allocating large funds in port investment – comment.	10	CO 4
Q 5	When do you conceptualize a RORO terminal? Are these relevant in the world today?	10	CO 3
Q 6	Best equipment create the best port performance – comment	10	CO 3
<b>SECTION-D : Compulsory</b>			
Q	Statement of question	<b>Marks</b>	<b>CO</b>
Q 7	<p>Draw a <u>proper layout of a dry bulk terminal</u> with two berth with scope of enhancing this to three.</p> <p>Identify what facilities and yard area should be allocated for a regular traffic of 6 million Tons. <u>Line drawing with approximate sizes will be required.</u> Draft of the port is 15 meters.</p> <p>Outline planning process through a Fish Bone diagram - and list out <b>ALL THE INFRASTRUCTURE</b> that you shall need <b>now</b> and <b>2 year later</b></p>	30	CO 4

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<b>Instructions:</b>	

**SECTION A : All questions compulsory**

S. No.		Marks	CO
Q 1	Statement of question	2	CO 1
a)	What is the function of a rail terminal in port?	2	CO 2
b)	Why are dredgers used?	2	CO 1
c)	What are the three major functions of the breakwater?	2	CO 2
d)	What is the need for maintaining inner and outer harbors in some Indian Ports?	2	CO 1
e)	Give names of two data sources that can be used in forecasting the port cargo.	2	CO 2
f)	What do you mean by minimum guaranteed throughput? Explain in two lines.	2	CO 2
g)	Why do we consult the shipping lines when a bulk berth is created?	2	CO 1
h)	What is a basin? In what way basins specifications are made?	2	CO 1
i)	What is contour study?	2	CO 1
j)	Why is loading arm favored in contrast to pipeline discharge working on tanker vessels?	2	CO 1

**SECTION B**

Q 2	Statement of question	Marks	CO
a)	Why do the ports take up environment impact assessment & environment management program?	4	CO 1
b)	Explain the need of bathymetric study and how these are conducted?	4	CO 2
c)	Port-tariff and project cost are complementary – discuss.	4	CO 2
d)	Describe in 4 lines each <b>two man-made structures</b> in port	4	CO 1

e)	What specific issues are taken up while deciding on tanker terminals (mention 3)?	4	CO 3
f)	<b>Critically</b> comment – more tugs provide a better serviced port?	4	CO 3
g)	Zoning is essential for a sustainable port – comment.	4	CO 3
<b>SECTION-C</b>			
Q No.	Statement of question	<b>Marks</b>	<b>CO</b>
<b>Q 3</b>	Do you agree that - “PPP is essential instruments in making India achieve the targeted port capacity?”	<b>10</b>	<b>CO 4</b>
<b>Q 4</b>	What are the different forecasting strategies in port planning? In this context please highlight the need for scenario analysis	<b>10</b>	<b>CO 3</b>
<b>Q 5</b>	How do you conceptualize a RORO terminal? Outline steps	<b>10</b>	<b>CO 4</b>
<b>Q 6</b>	What do you mean by ‘capacity’ in a port? How is port planning associated with port capacity? What are the factors that affect the capacity of a port?	<b>10</b>	<b>CO 3</b>
<b>SECTION-D (COMPULSORY)</b>			
Q No	Statement of question	<b>Marks</b>	<b>CO</b>
<b>Q 7</b>	<p>Draw a <u>proper layout of a container terminal</u> with two berth with scope of enhancing this to three.</p> <p>Identify what facilities and area should be allocated for a regular traffic of 0.5 million TEUs. <u>Line drawing with approximate sizes will be required.</u> Draft of the port is 14.5 meters.</p> <p>Outline planning process through a Fish Bone diagram - and list out <b>ALL THE INFRASTRUCTURE</b> that you shall need <b>now</b> and <b>2 year later</b>.</p>	<b>30</b>	<b>CO 4</b>