UNIVERSITY OF PUNE

[4363]-19

T. E. (PETROLEUM ENGINEERING) Examination 2013 DRILLING & PRODUCTION OPERATIONS (2003 Course)

[Total No. of Questions:4]	[Total No. of Printed page	iges:1]
[Time: 3 Hours]	[Max. Marks	s : 100]
Instructions:		
(1) Answers any 3 quest	tions from each section	
(2) Answers to the two s answer-books	Sections should be written in sep	varate
(3) Neat diagram must t	be drawn wherever necessary.	
(4) Figures to the right indicate full marks.		
(5) Assume suitable data	ı, if necessary.	
. ,	ables slide rule, Mollier charts, e l steam tables is allowed.	electronic
SECT	TION I	
Q.1 Illustrate in detail forces acting on dr	illing floater rig.	[25]
What is the effect of translational an	d rotational motions on a	
drillship? what arrangements are to b	be made for station keeping?	
Q.2 Write the step down procedure for lo	wering of temporary guide base	[25]
drilling of 36" hole till lowering of 2	20" casing and cementation.	
SECT	ION II	
Q.3a) Draw and explain concrete gravity	platform. Discuss case study of	[10]
design analysis.		
b) Discuss Riser system and design i	n detail	[15]
Q.4a) Draw subsea well control Bop and	explain driller method of well co	ontrol[15]
b) Explain interpretation of DST test	Į.	[10]