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Examination: [2017 SUMMER](#)

Que.No	Question/Problem	marks
Q 1a)(a)	What is function of (i) oil reservoir (ii) pressure relief valve, (iii) direction control valve, (iv) filters ?	4
Q 1a)(c)	Explain piston pump with neat sketch.....	4
Q 3 b)	Explain gear pump with neat sketch.....	4
Q 3 c)	Explain any four criteria for selection of hydraulic pump in hydraulic system.	4
Q 4b)(a)	Explain with neat sketch the working of variable displacement vane pump.	6
Q 6 d)	Compare positive displacement pump with Rotodynamic pump.	4

Examination: [2017 WINTER](#)

Que.No	Question/Problem	marks
Q 1a)(a)	State the four advantages and disadvantages of screw pump.	4
Q 1a)(b)	Explain the construction of 4/2 poppet valve with neat sketch & symbol.	4
Q 1a)(c)	State the essential properties of hydraulic fluids.....	4
Q 1b)(a)	Draw general layout of hydraulic system and explain its working.	6
Q 3 d)	Draw neat labelled sketch of.....	4
Q 4b)(a)	Explain variable displacement axial piston pump with neat sketch.....	6
Q 6 c)	Enlist the hydraulic oil manufacturer's in India.....	4
Q 6 d)	Enlist applications of hydraulic system.....	4

Examination: [2016 WINTER](#)

Que.No	Question/Problem	marks
Q 1a)(i)	Write any four applications oil hydraulic systems	4
Q 1a)(ii)	What are the effects of contaminants in the oil?	4
Q 1b)(i)	Draw actual hydraulic system and explain its working.	6
Q 2 a)	What is swash plate? What is its use.....	8
Q 3 a)	Write any four advantages of oil hydraulic system.	4
Q 5 b)	Explain construction and working of gear pump.	8
Q 6 a)	In cold climate why oil tank is equipped with oil heaters? Explain.	4
