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Examination: 2017 SUMMER

Que.No	Question/Problem	marks
Q 1 i)	Define self-energizing and self-locking brake.	2
Q 1 m)	What are the limitations of shoe brake ?	2
Q 1 n)	Define uniform wear theory and uniform pressure theory.	2
Q 4 e)	Explain the working of internal expanding brake with neat sketch.	4
Q 4 f)	A shaft has number of collars integral with it.....	4
Q 6 c)	Explain the working of rope brake dynamometer with neat sketch	4

Examination: 2017 WINTER

Que.No	Question/Problem	marks
Q 1a)(g)	Compare brakes and dynamometers. (any two points)	2
Q 4 d)	Explain with neat sketch construction and working of eddy current dynamometer.	4
Q 6 b)	A simple band brake is operated by lever 40 cm long. The brake drum diameter is 40 cm and brake band embrance 5/8 of its circumference. One end of band is attached to a fulcrum of lever while other end attached to pin 8 cm from fulcrum. The co-efficient o	8

Examination: 2016 SUMMER

Que.No	Question/Problem	marks
Q 1a)(vii)	State the application of (i) Disc brake (ii) Internal expanding brake	2
Q 4 d)	Explain construction and working of eddy current dynamometer.	4

Que.No	Question/Problem	marks
Q 6 b)	A simple band brake shown in figure 2 is applied to a shaft carrying a flywheel of mass 250 kg.....	8
Q 6 c)	A conical pivot with angle of cone as 100.....	8

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Que.No	Question/Problem	marks
Q 3 d)	State the applications of (i) Band brake (ii) Disc brake (iii) Internal expanding shoe brake (iv) External shoe brake	4
Q 4 d)	Discuss the working of Rope brake dynamometer with the help of a neat sketch.	4
Q 4 e)	Explain the working of internal expanding shoe brake with the help of neat sketch.	4
Q 5 c)	In a band and block brake shown in Fig.....	8
Q 6a)(ii)	Differentiate between disc brake and internally expanding brake.	4
Q 6 c)	Determine the power lost in a footstep bearing.....	8

Examination: 2015 SUMMER

Que.No	Question/Problem	marks
Q 1a)(g)	Give the classification of dynamometer. State the function of it.	2
Q 4 d)	Explain working of hydraulic brake dynamometer with sketch.	4
Q 4 f)	A thrust shaft of a ship has 6 collar of 600 mm	4
Q 6 b)	A simple band brake is operated by lever 40 cm long.....	8

Examination: 2015 WINTER

Que.No	Question/Problem	marks
Q 1a)(vii)	Compare brakes and dynamometers (two points).	2
Q 2 f)	Numerical Problem-A casting weighing 9 kN hangs freely from a rope which makes 2.5 turns	4
Q 4 d)	Explain the working of rope brake dynamometer with neat sketch.	4
Q 6 b)	In a simple band brake, the band acts on the 3/4th of circumference of a drum of 450 mm diameter.....	8