

[Home](#) >

Apply

Examination:

Que.No	Question/Problem	marks
Q 3 a)	State the norms of Bharat stage III and IV.	4

Examination: [2017 SUMMER](#)

Que.No	Question/Problem	marks
Q 1b)(b)	Morse Test	6
Q 2 b)	The following data refers to a trial conducted on 4-stroke petrol engine Air-fuel ratio (by mass).....	8
Q 3 b)	A petrol engine has a cylinder of diameter 60 mm and stroke 100 mm.....	4
Q 3 c)	Explain with neat sketch two way catalytic converter.	4
Q 4a)(a)	a) Define : i) Stroke ii) Bore	6
Q 4b)(l)	Explain how the heat balance sheet for an IC engine is prepared.....	6
Q 6 a)	The following results were obtained during Morse test on 4 stroke petrol engine	4

Examination: [2017 WINTER](#)

Que.No	Question/Problem	marks
Q 2 c)	The following results were obtained during Morse test on 4-stroke petrol engine....	8
Q 3 c)	State the advantages of lubricant additives (any four)....	4
Q 4a)(a)	Define the following w.r.to. I.C. engine.	4
Q 4a)(b)	Explain the term swept volume (V_s) w.r.to.	4
Q 4b)(a)	What is meant by catalytic converter ?.....	6

Que.No	Question/Problem	marks
Q 5 c)	List out different pollutants in exhaust gases of petrol and diesel engine.....	8

Examination: [2016 SUMMER](#)

Que.No	Question/Problem	marks
Q 1b)(a)	Explain in brief, how 'Morse test' is carried out ?	6
Q 1b)(b)	Explain with neat sketch the constructional features of 'Three Way Catalytic Converter'.	6
Q 2 c)	Following observations were made during a trial on 4-stroke, single cylinder engine.....	8
Q 4a)(b)	An engine has piston diameter 15 cm, length of stroke 40 cm and mean effective pressure 5 bar.....	4
Q 4a)(d)	Explain the term w.r.t. I.C. engine.....	4
Q 4b)(a)	Name any four additives used in lubricants ? State their advantages.....	6

Examination: [2016 WINTER](#)

Que.No	Question/Problem	marks
Q 1b)(a)	A four cylinder engine running at 1200 rpm delivers 20 kW	6
Q 1b)(b)	Explain with neat sketch working of non dispersive infra red (NDIR) gas analyser.	6
Q 2 c)	A four stroke gas engine has a cylinder diameter of 25 cm and stroke 45 cm...	8
Q 3 a)	List any four pollutants in exhaust gases of I.C. engine with their effects.	4
Q 4a)(c)	State the norms of Bharat stage III and IV	4
Q 4b)(a)	Define - (i) Indicated power, (ii) Mechanical efficiency, (iii) BSFC	6
Q 4b)(b)	List the additives of lubricant used in S.I engine and state their advantages.	6

Examination: [2015 SUMMER](#)

Que.No	Question/Problem	marks
Q 1b)(a)	What is the necessity of I.C. Engine Testing	6
Q 1b)(b)	Explain the procedure for conducting Morse test.....	6

Que.No	Question/Problem	marks
Q 2 a)	An I.C. Engine uses 6 kg of fuel having calorific value 44000 kJ/kg in one hour.....	8
Q 3 c)	Explain three way catalytic convertor.....	4
Q 4 b)	What are the effects of pollutants on environment ?	4
Q 4b)(b)	The following results were obtained during Morse test on 4-stroke petrol engine. B.P.....	6

Examination: [2015 WINTER](#)

Que.No	Question/Problem	marks
Q 1b)(b)	Write any three pollutants in exhaust gasses....	6
Q 2 c)	The following observations were made during the test on an oil engine BP	8
Q 3 a)	What is catalytic convertor ? Explain two way catalytic convertor with neat sketch	4
Q 3a)(d)	Describe the method to measure indicated power of I.C. engine.	4
Q 4a)(b)	Define the following related I.C. engine	4
Q 4b)(a)	List the additives of Lubricant used in S.I. engine and state their advantages.	6

Examination: [2014 WINTER](#)

Que.No	Question/Problem	marks
Q 1b)(i)	What do you mean by.....	6
Q 1b)(ii)	Explain with neat sketch any one catalytic converter.....	6
Q 2 c)	During a trial on 4-stroke gas engine following observations were recorded.....	8
Q 3 a)	The results of exhaust gas analysis.....	4
Q 4a)(iv)	Various efficiencies of 4-stroke petrol engine run at full throttle over.....	4
Q 4b)(I)	State the role of following lubricant additives	6

Examination: [2018 SUMMER](#)

Que.No	Question/Problem	marks
Q 1b)(a)	State different methods of determining frictional power of I.C. engine and explain any one method	6

Que.No	Question/Problem	marks
Q 1b)(b)	Explain with neat sketch working principle of any one type of catalytic converter.	6
Q 1b)(i)	Define :	4
Q 2 a)	Following observations were recorded during a trial on single cylinder four stroke oil engine	8
Q 3 c)	State effects of pollutants in exhaust gases of petrol engine.	4
Q 4a)(b)	Define : i) Mechanical efficiency ii) Volumetric efficiency related to I.C. engine.	4
Q 4a)(c)	State advantages of closed cycle gas turbine.	4
Q 4b)(b)	The following data is collected during a trial of four stroke four cylinder petrol engine.	6
Q 6 a)	State any four types of sensors used in I.C. engine.	4
