

S.B. Roll No.....

WORKSHOP TECHNOLOGY-II
4th Exam./Mech/Auto/5310/June'2015

Duration : 3 Hrs

M. Marks : 75

Note : Section-A is compulsory.

Section-A

Q.1 Fill in the blanks.

10 x 1 = 10

- (a) Coolant and lubricantsthe tool life.
- (b) The fixture does notthe tool.
- (c) When a broach is made in one piece it is called a
- (d) The cutting action of a slotter occurs on thestroke.
- (e) Reaming is aoperation.
- (f)is the operation of cutting an internal thread in a drilled hole.
- (g) Turret lathe istype lathe.
- (h) Angle plates, collets and mandrels areof lathe.
- (i) Thestroke in a shaper is called idle stroke.
- (j) The planer is especially adopted towork piece.

State True OR False :-

5 x 1 = 5

- (a) Pull broaches are longer than the push broaches.
- (b) The Clapper box in a shaper helps to perform the return stroke.
- (c) Cutting fluid should have high viscosity.
- (d) Diamond is the hardest of all the cutting tool materials.
- (e) Jigs are heavier than fixtures.

Section-B

Q.2 Attempt any five question.

5 x 6 =30

- I. What do you understand by tool signature ?
- II. Write the various methods for taper turning. Explain one of them.
- III. Explain the principle of drilling.
- IV. Explain difference between cutting fluid and lubricant.
- V. Classify different types of boring machines.
- VI. Write the working principle of a planer.
- VII. What are the advantages of jigs and fixtures ?

Section-C

Q.3 Attempt any three questions.

3 x 10 =30

- I. What are the most commonly used systems of lubrication of machine tools?
Explain two of them.
- II. Differentiate between a capstan and Turret lathe.
- III. Describe jig boring machine and its operation?
- IV. Draw the block diagram of horizontal shaper and write about its important parts in detail.
- V. Explain pull broach and push broach with neat sketch.