MODEL QUESTION PAPER

DSA4/DSM4

III Semester DIPLOMA Examination, August 2011
MACHINE DRAWING

Time: 3 Hours   Max. Marks: 75

GROUP A : Answer any three questions.

Q.1   Write the proportions of the Square nut.
Q.2   What is the name of section in which the cross-section of pant is shown separately?
Q.3   Explain the fit and its types.
Q.4   What are the different diameters in square thread? Briefly write about each. Write short note on multi start thread.
Q.5   Sketch the different forms of screw threads.

GROUP B : Answer any three questions.

Q.6   What is the need of sectoning?
Q.7   What is the general relationship between lead and pitch in a multi-start thread?

Q.8   State the various Auto CAD commands and their uses.
Q.9   What is the usual proportion for radius of woodruff key in terms of diameter of shaft?
Q.10   What is the main use of the offset section? Draw a offset section. Compare revolved section and removed sector.

GROUP C : All Questions are Compulsory.

Q.11 Fill in the blanks.

(i)   The section lines should be drawn at an angle of _____ to the boundary line.
(ii)   Fit is the condition of _____ or _____ between two mating parts assembled together.
(iii)   A _____ saddle key is placed on the flat surface made on the shaft.
(iv)   The key which is having uniform width and tapering thickness is called _____ key.
(v)   The algebraic difference between an actual size and the corresponding basic size is _____.

Q.12 Multiple choice question.

(i)   The outermost position which joins the two sides of a thread is _____.

	(a) Root	(b) Crest
	(c) Flank	(d) Angle
(ii)	In British association thread, the angle of the thread is _____.
	(a) 60˚	(b) 52˚
	(c) 47.5˚	(d) 45˚
(iii)	The standard taper of the sunk key is _____.
	(a) 1 in 50	(b) 1 in 100
	(c) 1 in 150	(d) 1 in 200
(iv)	The thread used generally for power transmission is _____.
	(a) Square	(b) V-Thread
	(c) Acme	(d) Metric
(v)	In AutoCAD which command is used to draw smooth round arcs to connect two objects?
	(a) Arc	(b) Circle
	(c) Point	(d) Fillet

Q.13 True or false.

(i)   A V-Thread is used for power transmission.
(ii)   The term hole refers to any External dimension or a component.
(iii)   Geometrical Tolerance indicate the minimum & maximum hole size.
(iv)   Fillet command is used to draw symmetrical images.
(v)   For interference fit shaft is always larger than the hole.

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