Program: BE Mechanical Engineering Curriculum Scheme: Rev2016 Examination: Third Year Semester V

Course Code: MEDLO5013 and Course Name: Design of Jigs and Fixtures

Time: 1 hour Max. Marks: 50

Note to the students:- All the Questions are compulsory and carry equal marks.

Q1.	The device which place the workpiece in the same position, in jig and fixture, cycle after cycle is called as		
Option A:	Placing device		
Option B:	Fixing device		
Option C:	Locating device		
Option D:	Positioning device		
Q2.	The device which is used to remove workpiece from close-fitting locators, after the workpiece has been removed is called as		
Option A:	Remover		
Option B:	Ejector		
Option C:	Escaper		
Option D:	Blocker		
Q3.	holds the work piece securely in a jig or fixture against the cutting forces		
Option A:	Locating device		
Option B:	Clamping device		
Option C:	Guiding device		
Option D:	Indexing device		
Q4.	Lathe mandrels are		
Option A:	Jig		
Option B:	Fixture		
Option C:	Gauge		
Option D:	Template		
Q5.	Which of the following is the type of nonconventional clamping?		
Option A:	Fusion clamping		
Option B:	Electrostatic clamping		
Option C:	Magnetic clamping		
Option D:	Vacuum clamping		
Q6.	The quickest clamping device is a		
Option A:	wing nut		
Option B:	knurled nut		
Option C:	cam/eccentric		
Option D:	conventional nut		

Q7.	are used where a heavy clamping force is required		
Option A:	Hydraulic pistons		
Option B:	Pneumatic pistons		
Option C:	Vacuum pistons		
Option D:	Electro-pneumatic pistons		
Option B.			
Q8.	Vacuum clamping is used for flat sheets.		
Option A:	Thick		
Option B:	Thin		
Option C:	Heavy		
Option D:	Small		
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Q9.	The supports should be located to the clamping force.		
Option A:	Opposite		
Option B:	Same side		
Option C:	Adjacent		
Option D:	On		
- F			
Q10.	Sandwich jigs are ideal for parts which could bend.		
Option A:	Thin		
Option B:	Thick		
Option C:	Hard		
Option D:	Round		
option B.	Tround		
Q11.	Template jigs are expensive and simplest type of jig.		
Option A:	Least		
Option B:	More		
Option C:	Most		
Option D:	Moderate		
option 2.			
Q12.	When bushing are not there in jig plate, the whole jig plate is normally		
Option A:	Hardened		
Option B:	Softened		
Option C:	Polished		
Option D:	Lubricated		
1			
Q13.	Which jig is used for machining in more than one plane?		
Option A:	Template jig		
Option B:	Plate type jig		
Option C:	Open type jig		
Option D:	Box type jig		
1			
Q14.	Which jig can be used for several different work pieces and operations?		
Option A:	Template jig		
Option B:	Universal jig		
Option C:	index jig		
Option D:	Multi-station jig		
opnon D.			

Q15.	Milling Fixtures for horizontal machines should be able to bear torque in the plane.		
Option A:	Vertical		
Option B:	Horizontal		
Option C:	Lateral		
Option D:	Transverse		
option 2:			
Q16.	String milling operation is used to perform		
Option A:	Milling of multiple workpieces arranged in one line		
Option B:	To cut complicated profile on the workpiece		
Option C:	To cut two perpendicular slots in one workpiece		
Option D:	to cut a through hole		
option 2:			
Q17.	The type of bearing used in indexing fixtures is,		
Option A:	Roller Bearing		
Option B:	Thrust bearing		
Option C:	Radial Ball bearing		
Option D:	Pedestal bearing		
Option B.			
Q18.	The fixtures can be located on the machine table by		
Option A:	setting block		
Option B:	3-2-1 principal of location		
Option C:	Tennons		
Option D:	V-block		
Option B.			
Q19.	In welding fixturemust be provided below the line of welding to prevent the workpiece from		
	getting welded to the base plate by the welding spatter.  Holes		
Option A:	Slots		
Option B:	Spatter grooves		
Option C:	Stopper		
Option D:	Stopper		
020	Jaw chucks can be used to		
Q20.	Hold the workpiece from its front face		
Option A:	Hold the workpiece from its rear face		
Option B:	Hold the regular shaped workpieces from their bore		
Option C:	To balance the tool		
Option D:	To balance the tool		
021	Spring collete are used to locate have on		
Q21.	Spring collets are used to locate bars on		
Option A:	Slotter  Constal purpose lethe		
Option B:	General purpose lathe		
Option C:	Grinding machine		
Option D:	Capstan Lathe		
	for having appretian an lather machine, using them in a finite machine.		
Q22.	for boring operation on lathe machine using turning fixture, the pilot bush is		
Option A:	not used		
Option B:	used on the rear side of the workpiece		
Option C:	used in front of the workpiece		

Option D:	used to set the workpiece
Q23.	Balance weight in the Turning fixture is used to
Option A:	To balance the workpiece
Option B:	To balance the fixture
Option C:	To support the workpiece
Option D:	To clamp the workpiece
Q24.	Indexing facilitating accurate positioning of a part around its axis is called
Option A:	Linear indexing
Option B:	Rotary indexing
Option C:	Angular indexing
Option D:	Axial indexing
Q25.	The indexing plate can be rotated about the central pivot and clamped in position with
Option A:	Handle
Option B:	Nut
Option C:	Lock
Option D:	Hand knob

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Question	Correct Option (Enter either 'A' or 'B' or 'C' or 'D')
Q1.	С
Q2.	В
Q3.	В
Q4	В
Q5	A
Q6	С
Q7	A
Q8.	В
Q9.	A
Q10.	A
Q11.	A
Q12.	A
Q13.	D
Q14.	В
Q15.	A
Q16.	A
Q17.	В
Q18.	С
Q19.	С
Q20.	С
Q21.	D
Q22.	В
Q23.	В
Q24.	В
Q25.	D