

These are sample MCQs to indicate pattern, may or may not appear in examination

University of Mumbai

Online Examination 2020

Program: BE Automobile Engineering

Curriculum Scheme: Revised 2016

Examination: Third Year Semester V

Course Code: AEDLO5013 and Course Name: Design of Jigs and Fixtures

Time: 1hour

Max. Marks: 50

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

		Option A	Option B	Option C	Option D
Q1	V-blocks (Vee Locators) are used for clamping as well as locating when faces are inclined upto_____.	30 degree	12 degree	9 degree	3 degree
Q2	Hardening of drill jig bushing are normally done to	Protect the jig from damage	Ensure Prolonged life without wear and tear so as to guide the tool accurately	Guide the tool so that it does not go inclined	Allow the chips to come out easily
Q3	Which jig is used for machining in more than one plane?	Template jig	Plate type jig	Open type jig	Box type jig
Q4	For indexing of heavier workpiece on milling fixture_____.	A rack and pinion mechanism is used	An indexing pin is used	Plate with spring loaded ball is used	A lever arm is used
Q5	Which fixtures are used for machining parts which must have machined details evenly spaced?	Profile fixtures	Duplex fixtures	Indexing fixtures	Vice Jaw fixtures
Q6	The type of bearing used in indexing fixtures is _____.	Roller Bearing	Thrust bearing	Radial Ball bearing	Pedestal bearing

Q7	Which of the following operation doesn't use jig?	Turning	Drilling	Milling	Welding
Q8	Which jig can be used for several different work pieces and operations?	Template jig	Universal jig	index jig	Multi-station jig
Q9	Fixtures are used to _____.	Locate and clamp the workiece and set the cutter	Locate and clamp the workiece and guide the cutter	Only to locate and clamp the workpiece	Only to guide the cutter
Q10	In plain milling machine, the table can be moved_____.	Longitudinally	Cross wise	Vertically	Horizontally
Q11	Lathe mandrels are_____.	jig	fixture	gauge	Template
Q12	_____ are used where a heavy clamping force is required	Hydraulic pistons	Pneumatic pistons	Vaccum pistons	Electro-pneumatic pistons
Q13	Exapnding post and arbors in lathe are used to_____.	Hold the workpiece from their bore	Hold the workpiece from outer	Hold the workpiece from its sides	Hold the workpiece from its front face
Q14	Renewable bushing are used when_____.	One operation is to be performed in each hole but several bushing must be used during the life of	Many holes of various sizes are to be drilled on a jig in different settings	No bushing change is required	More than one operation has to be performed through the same location of the jig
Q15	Balance weight in the Turning fixture is used to_____.	To balance the workpiece	To balance the fixture	To support the workpiece	To clamp the workpiece
Q16	In ball and conical dimple arrangement for indexing, the ball is pushed against the conical dimple by_____.	Piston	Spring	Lever	Stopper
Q17	The device which place the workpiece in the same position, in jig and fixture, cycle after cycle is called as_____.	Placing device	Fixing device	Locating device	Positioning device

Q18	Indexing plate is provided with _____ bushings to minimize wear caused by repeated operation of indexing arrangement in mass manufacturing.	Soft	linear	tapered	Hardened
Q19	for boring operation on lathe machine using turning fixture, the pilot bush is _____.	not used	used on the rear side of the workpiece	used in front of the workpiece	used to set the workpiece
Q20	Which of the following is not a locating device?	Cam operated V	Conical head	Slotted strap	Diamond pin
Q21	Which one is not the turning fixture?	Chucks	Collets	Mandrels	Jigs
Q22	Template jigs are normally used for _____.	Accuracy	Speed	Cutting speed	Precision
Q23	Swinging bar is a _____ device.	Clamping	Guiding	Locating	Cutting
Q24	A diamond locating pin is used in jigs and fixtures because _____.	diamonds is very hard and wear resistant	it occupies very little space	it helps in assembly with tolerance on centre distance	it has a long life
Q25	With the use of jigs and fixture quality control expenses will _____.	Increase	Reduce	Jigs and fixture are not used in any production process	doesn't effect quality control expenses