

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

**University of Mumbai
Online Examination 2020**

Program: BE Mechanical Engineering

Curriculum Scheme: Revised 2016

Examination: Third Year Semester V

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

Time: 1 hour

Max. Marks: 50

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

Q1.	Function of drill bushes is
Option A:	holds the workpiece securely in a jig or fixture against the forces applied over it during on operation.
Option B:	which helps a work piece to seat in proper position
Option C:	direct the tool to the correct position on the workpiece
Option D:	It prevents denting of clamping area of workpiece.
Q2.	With the use of Jigs and fixture total cost of production
Option A:	Increases
Option B:	Decreases
Option C:	Remains same
Option D:	Jigs and fixtures are not used in any production process
Q3.	Fixtures are used in
Option A:	Drilling
Option B:	Reaming
Option C:	Tapping
Option D:	Milling
Q4.	Push fit refer to high precision is
Option A:	H7/f6
Option B:	H7/h6
Option C:	H7/p6
Option D:	H7/s6
Q5.	The cheapest and most widely used material in jig and fixture is
Option A:	Mild steel
Option B:	carbon steel
Option C:	cast iron
Option D:	HSS

Q6.	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
Q7.	In manufacturing, with the use of Jigs and fixture rate of production will
Option A:	Increases
Option B:	Decreases
Option C:	Remains same
Option D:	Jigs are not used in any production process
Q8.	Which locator is best suitable for location of round shaped job in fixture
Option A:	Vee type
Option B:	pin type
Option C:	Wedge type
Option D:	adjustable stop type
Q9.	the outside diameter of back plate is machined to ----grade of tolerance
Option A:	zero grade
Option B:	first grade
Option C:	second grade
Option D:	sixth grade
Q10.	Face plate fixtures are suitable to face
Option A:	at a time
Option B:	simultaneously
Option C:	continuous
Option D:	discontinuous
Q11.	For grinding outside diameter of bushes----are used
Option A:	hydraulic collets
Option B:	pneumatic collets
Option C:	axial clamping mandrels
Option D:	nut and bolts
Q12.	For reducing vibrations in fixtures
Option A:	balance weights are used
Option B:	more weights are used
Option C:	no weights are used
Option D:	very less weights are used
Q13.	Which fixtures are used for machining parts which must have machined details evenly spaced?

Option A:	Profile Fixture
Option B:	Duplex Fixture
Option C:	Indexing Fixture
Option D:	Reciprocating Fixture
Q14.	The following type of jig is used to drill a series of the equidistant hole along a circle in production tooling
Option A:	Pot type jig
Option B:	Index jig
Option C:	Plate type jig
Option D:	Open type jig
Q15.	_____ is said to exist when two locators are attempting to constrain one freedom from two location points
Option A:	Conical location
Option B:	Redundant location
Option C:	partially nest location
Option D:	Nest location
Q16.	Which of the following are used to locate the workpiece from a tapered hole or shaft, and when applied in this manner are similar to location posts and pots
Option A:	conical locators
Option B:	c washers
Option C:	captive clamps
Option D:	flat locators
Q17.	Which clamping system is convenient for securing thin flat sheets which are vulnerable to distortion under heavy clamping force?
Option A:	hydraulic clamping
Option B:	manual clamping
Option C:	vacuum clamping
Option D:	screw clamping
Q18.	Which of the following is a clamping device?
Option A:	bridge clamp
Option B:	diamond pin
Option C:	conical locator
Option D:	jack pin
Q19.	In drill jig _____ are used to guide drills, reamers etc.
Option A:	screws
Option B:	bushes
Option C:	nuts
Option D:	clamps

Q20.	Which of the following is the type of bush?
Option A:	slip bush
Option B:	run bush
Option C:	radial bush
Option D:	gear bush
Q21.	Which of the following are the most common type of bushings and are pressed interference fit in the bushing plates also referred to as jig plates?
Option A:	Press fit bushings
Option B:	loose bushing
Option C:	threaded bushes
Option D:	running fit bushing
Q22.	Which of the following is the type of drilling jig in production tooling?
Option A:	tempered jigs
Option B:	hardened jigs
Option C:	trunnion jigs
Option D:	grounded jigs
Q23.	Jig bush can be applicable in which of the following operations?
Option A:	turning
Option B:	lapping
Option C:	drilling
Option D:	welding
Q24.	Drill jig can be applicable in which of the following operations?
Option A:	milling
Option B:	grinding
Option C:	honing
Option D:	reaming
Q25.	Which of the following is not part of drilling jig?
Option A:	bush
Option B:	locator
Option C:	clamps
Option D:	setting block