## University of Mumbai Online Examination 2020-21

Program: TE Automobile Engineering Curriculum Scheme: Revised 2016 Examination: Third Year Semester V Course Name: Design of Jigs and Fixtures

Sample question bank Time: 1 hour Max. Marks: 50

No.	Question					
Q1	A fixture does not,					
Option A:	Locate the workpiece					
Option B:	Holds the workpiece					
Option C:	Position the workpiece					
Option D:	Guide the tool					
•						
Q2	The following is a quick acting clamp,					
Option A:	Cam operated clamp					
Option B:	Hinged clamp					
Option C:	Bridge clamp					
Option D:	Edge clamp					
•						
Q3	Jigs are used in,					
Option A:	Drilling					
Option B:	Milling					
Option C:	shaping					
Option D:	CNC milling					
•						
Q4	Commonly used material for making locating and clamping devices is,					
Option A:	Die steel					
Option B:	High speed steel					
Option C:	Low carbon steel					
Option D:	High carbon steel					
Q5	The following type of jig is used for machining in more than one plane,					
Option A:	Template jig					
Option B:	Box type jig					
Option C:	Plate type jig					
Option D:	Open type jig					
Q6	Principle of states that "In order to achieve the maximum accuracy in					
	location the locating points should, therefore, be placed as far apart from one another					
	as it is possible".					
Option A:	Extreme positions					
Option B:	Six point location					
Option C:	Least points					
Option D:	Mutually perpendicular planes					
Q7	For grinding outside diameter of bushesare used					
Option A:	hydraulic collets					
Option B:	pneumatic collets					

Ontion C.	arial alamina mandusta					
Option C:	axial clamping mandrels					
Option D:	nut and bolts					
Q8	For reducing vibrations in fixtures					
Option A:	balance weights are used					
Option B:	more weights are used					
Option C:						
Option D:	no weights are used  very less weights are used					
Option D.	very less weights are used					
Q9	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					
Q10	Which of the following are the most common type of bushings and are pressed					
O-4: A.	interference fit in the bushing plates also referred to as jig plates?					
Option A: Option B:	Press fit bushings loose bushing					
Option C:	threaded bushes					
Option D:	running fit bushing					
Q11	Which of the following is the type of drilling jig in production tooling?					
Option A:	tempered jigs					
_						
Option B: Option C:	hardened jigs					
Option D:	trunnion jigs grounded jigs					
Option D.	grounded jigs					
Q12	In drill jig are used to guide drills, reamers etc.					
Option A:	screws					
Option B:	bushes					
Option C:	nuts					
Option D:	clamps					
1	•					
Q13	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					
Q14	The following holds the workpiece securely in a jig or fixture against the cutting					
	forces					
Option A:	Guiding device					
Option B:	Clamping device					
Option C:	Indexing device					
Option D:	Locating device					
Spring.						
Q15	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					
	1 2 2 2					

Option C: Plate type jig Option D: Open type jig  Q16	Ontion D.	Inday iia					
Option D: Open type jig  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 D: flat locators  Option A: Option A: option A: option A: option A: option B: diamond pin  Option B: diamond pin  Option D: jasek pin  Q18		Index jig					
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, conical locators Option B: c captive clamps Option C: captive clamps Option D: flat locators  Q17 Which of the following is a clamping device?  D17 Option A: bridge clamp Option B: diamond pin Option C: conical locator Option D: jack pin  Q18  Q18  G19  Q18  Redundant location points, Option A: Conical location Option B: Redundant location points, Option C: partially nest location Option D: Nest location Option D: Nest location Option D: Nest location Option B: Option A: Profile Fixture Option B: Option C: lindexing Fixture Option C: lindexing Fixture Option D: Reciprocating Fixture  Q20  Push fit refer to high precision is H7/16 Option C: H7/26 Option A: Take plate fixtures are suitable to face at a time Option B: simultaneously Option B: simultaneously Option C: continuous Option C: discontinuous  Q22  Which locator is best suitable for location of round shaped job in fixture Option C: option B: simultaneously Option C: adjustable stop type Option C: adjustable stop type Option D: Wedge type		77 00					
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223   The cheapest and most widery used material in Jig and materis	Q23	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				
Q24	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				
Q25	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:	helps a work piece to seat in proper position				
Option C:	direct the tool to the correct position on the workpiece				
Option D:	prevents denting of clamping area of workpiece.				