

Name: \_\_\_\_\_ Hall Ticket No. 

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**Answer All Questions. All Questions Carry Equal Marks. Time: 20 Min. Marks: 10.**

**I. Choose the correct alternative:**

1. The following are passive mechanical systems [     ]  
(a) Bearing    (b) rack pinion    (c) geneva    (d)all of the above
2. The basic building block of a sensor is [     ]  
(a)material    (b)actuator    (c)transducer    (d)none
3. Cutting the wafer in to individual chips is called [     ]  
(a) Etching    (b)packaging    (c)resisting    (d)dicing
4. LIGA is \_\_\_\_\_ technology [     ]  
(a)machining    (b) micro machining    (c)modelling    (d)sensor
5. SU-8 photo resist as an aspect ratio of [     ]  
(a)15:1    (b)10:1    (c)5:1    (d)20:1
6. LPCVD, PECVD come under which of these [     ]  
(a)micro machining    (b)etching    (c)oxidation    (d)thin film
7. The reciprocal of stiffness is [     ]  
(a)resistance    (b)shear strain    (c)compliance    (d)inductance
8. Damper element stores en ergy [     ]  
(a) Yes    (b)No    (c)some times yes or no    (d)can't predict
9. Process of preparing the available signal into a desirable one is called [     ]  
(a) ionization    (b)rectification    (c)clipping    (d)conditioning
10. Mechatronic systems are [     ]  
(a)elemental    (b)system based    (c)energy based    (d)hybrid type

**Cont.....2**

**II Fill in the Blanks:**

11. Creation and subsequent transformation of a masking pattern is called\_\_\_\_\_
12. Nano tubes can be grown by a process called\_\_\_\_\_
13. Expand MOEMS \_\_\_\_\_
14. The photo resist is coated on the surface by \_\_\_\_\_
15. Dopants are of \_\_\_\_\_ and \_\_\_\_\_ types
16. Petchants are usually a mixture of \_\_\_\_\_ solutions
17. Spring element stores \_\_\_\_\_ energy
18. The element possessing inertance is called\_\_\_\_\_
19. When the system parameters change w.r.t time it is called \_\_\_\_\_ system
20. The integration and packaging of all electronic circuits and mechanical parts is called\_\_\_\_\_

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(a)machining            (b) micro machining    (c)modelling    (d)sensor
2. SU-8 photo resist as an aspect ratio of [    ]  
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8. The following are passive mechanical systems [    ]  
(a) Bearing    (b) rack pinion            (c) geneva            (d)all of the above
9. The basic building block of a sensor is [    ]  
(a)material            (b)actuator            (c)transducer            (d)none
10. Cutting the wafer in to individual chips is called [    ]  
(a) Etching    (b)packaging            (c)resisting            (d)dicing

**Cont.....2**

## II Fill in the Blanks:

11. The photo resist is coated on the surface by \_\_\_\_\_
12. Dopants are of \_\_\_\_\_ and \_\_\_\_\_ types
13. Petchants are usually a mixture of \_\_\_\_\_ solutions
14. Spring element stores \_\_\_\_\_ energy
15. The element possessing inertance is called \_\_\_\_\_
16. When the system parameters change w.r.t time it is called \_\_\_\_\_ system
17. The integration and packaging of all electronic circuits and mechanical parts is called \_\_\_\_\_
18. Creation and subsequent transformation of a masking pattern is called \_\_\_\_\_
19. Nano tubes can be grown by a process called \_\_\_\_\_
20. Expand MOEMS \_\_\_\_\_

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**Answer All Questions. All Questions Carry Equal Marks. Time: 20 Min. Marks: 10.**

**I. Choose the correct alternative:**

1. LPCVD, PECVD come under which of these [     ]  
(a) micro machining (b) etching (c) oxidation (d) thin film
2. The reciprocal of stiffness is [     ]  
(a) resistance (b) shear strain (c) compliance (d) inductance
3. Damper element stores energy [     ]  
(a) Yes (b) No (c) some times yes or no (d) can't predict
4. Process of preparing the available signal into a desirable one is called [     ]  
(a) ionization (b) rectification (c) clipping (d) conditioning
5. Mechatronic systems are [     ]  
(a) elemental (b) system based (c) energy based (d) hybrid type
6. The following are passive mechanical systems [     ]  
(a) Bearing (b) rack pinion (c) geneva (d) all the above
7. The basic building block of a sensor is [     ]  
(a) material (b) actuator (c) transducer (d) none
8. Cutting the wafer into individual chips is called [     ]  
(a) Etching (b) packaging (c) resist coating (d) dicing
9. LIGA is \_\_\_\_\_ technology [     ]  
(a) machining (b) micro machining (c) modelling (d) sensor
10. SU-8 photo resist has an aspect ratio of [     ]  
(a) 15:1 (b) 10:1 (c) 5:1 (d) 20:1

**Cont.....2**

**II Fill in the Blanks:**

11. Petchants are usually a mixture of \_\_\_\_\_ solutions
12. Spring element stores \_\_\_\_\_ energy
13. The element possessing inertance is called \_\_\_\_\_
14. When the system parameters change w.r.t time it is called \_\_\_\_\_ system
15. The integration and packaging of all electronic circuits and mechanical parts is called \_\_\_\_\_
16. Creation and subsequent transformation of a masking pattern is called \_\_\_\_\_
17. Nano tubes can be grown by a process called \_\_\_\_\_
18. Expand MOEMS \_\_\_\_\_
19. The photo resist is coated on the surface by \_\_\_\_\_
20. Dopants are of \_\_\_\_\_ and \_\_\_\_\_ types

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**I. Choose the correct alternative:**

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(a) Yes            (b) No            (c) some times yes or no            (d) can't predict
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7. LIGA is \_\_\_\_\_ technology [     ]  
(a) machining            (b) micro machining            (c) modelling            (d) sensor
8. SU-8 photo resist has an aspect ratio of [     ]  
(a) 15:1            (b) 10:1            (c) 5:1            (d) 20:1
9. LPCVD, PECVD come under which of these [     ]  
(a) micro machining            (b) etching            (c) oxidation            (d) thin film
10. The reciprocal of stiffness is [     ]  
(a) resistance            (b) shear strain            (c) compliance            (d) inductance

**Cont.....2**

**II Fill in the Blanks:**

11. The element possessing inertance is called\_\_\_\_\_
12. When the system parameters change w.r.t time it is called \_\_\_\_\_system
13. The integration and packaging of all electronic circuits and mechanical parts is called\_\_\_\_\_
14. Creation and subsequent transformation of a masking pattern is called\_\_\_\_\_
15. Nano tubes can be grown by a process called\_\_\_\_\_
16. Expand MOEMS \_\_\_\_\_
17. The photo resist is coated on the surface by \_\_\_\_\_
18. Dopants are of \_\_\_\_\_ and \_\_\_\_\_types
19. Petchants are usually a mixture of \_\_\_\_\_solutions
20. Spring element stores \_\_\_\_\_energy

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