

سری سوال : یک ۱

زمان آزمون (دقیقه): تستی : ۶۰ تشریحی : ۶۰

تعداد سوالات : تستی : ۲۵ تشریحی : ۵

عنوان درس : زبان تخصصی مکانیک

رشته تحصیلی / گد درس : مهندسی مکانیک گرایش حرارت و سیالات، مهندسی مکانیک گرایش ساخت و تولید، مهندسی مکانیک گرایش مکانیک

جامدات ۱۳۱۵۱۰۷

1- We can reduce Friction by lubricating moving surfaces.

1. Sliding 2. Rolling 3. Static 4. Limiting

2- The coefficient of friction between two given surfaces is of the area in contact.

1. dependent 2. independent 3. weight 4. value

3- One of the example for a second kind levers is:

1. Human forearm 2. Crowbar 3. Pliers 4. Wheelbarrow

4- The plastic hammer is used to avoid injuring the surface of the material.

1. Sheet 2. Finished 3. Cutting 4. Chisel-shaped

5- is used wherever there is enough space to use a standard screwdriver.

1. Stubby 2. Ratchet 3. Offset 4. Philips

6- What shaped is a funnel?

1. Cone 2. Cube 3. Cylinder 4. Sphere

7- The entering students 10% of all students.

1. consist of 2. constitute 3. attend 4. participate

8- Nearly all energy comes from, either in a roundabout way or straight from it.

1. Sun 2. Moon 3. Planet 4. Earth

9- Heat can travel through a vacuum by

1. conduction 2. convection 3. radiation 4. extraction

10- Brass is an alloy which does not have any

1. carbon 2. copper 3. iron 4. concrete

11- Pipes exist in the shape of tubes and coils.

1. Copper 2. Lead 3. Brass 4. Zinc

12- The rate of expansion of solids, liquids and gases

1. depends 2. destroys 3. differs 4. inferiors

13- At constant pressure, change of state of matter takes place at fixed temperature.

1. sufficiently 2. occasionally 3. normally 4. invariably

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14-The gas which supports combustion is known as

- | | | | |
|-----------|-------------|-------------|-------------------|
| 1. Oxygen | 2. Nitrogen | 3. Chlorine | 4. Carbon dioxide |
|-----------|-------------|-------------|-------------------|

15-The milky liquid obtained from rubber trees is known as

- | | | | |
|-----------|---------|------------|----------|
| 1. Copper | 2. Acid | 3. Volcano | 4. Latex |
|-----------|---------|------------|----------|

16-Stainless steel contains chromium, which makes the steel

- | | |
|------------------------|--------------|
| 1. Smooth | 2. Shiny |
| 3. Corrosion-resistant | 4. Lubricant |

17-A sound cannot exist without

- | | | | |
|--------------|-------------|-------------|------------|
| 1. A current | 2. A vacuum | 3. Movement | 4. Gravity |
|--------------|-------------|-------------|------------|

18-Moped is an abbreviation of:

- | | |
|-----------------------|-------------------------------|
| 1. Motor Power Design | 2. Motor Assisted Pedal Cycle |
| 3. Motor Power Cycle | 4. Motor Power Ejected Design |

19-What is desired of springs is that they should be very at low loads and become at higher loads.

- | | |
|------------------------|---------------------------|
| 1. Oscillating, harder | 2. Stiffer, yielding |
| 3. Yielding, stiffer | 4. Hardening, Oscillating |

20-Compartments means:

- | | | | |
|-------------|-------------|----------|-------------|
| 1. Sections | 2. Segments | 3. Parts | 4. Enclosed |
|-------------|-------------|----------|-------------|

21-Air humidity is:

- | | |
|----------------------------------|--|
| 1. The air content of the vapour | 2. The water vapour content of the air |
| 3. The air content of the water | 4. Options a, b and c |

22-Natural convection occurs because of the of the flow.

- | | |
|-------------------------|----------------------|
| 1. Radiation | 2. Increment density |
| 3. Reduction in density | 4. Conduction |

23-"Gate valve" means:

- | | | | |
|-----------------|----------------|--------------------|----------------|
| 1. Sluice valve | 2. Globe valve | 3. Butterfly valve | 4. Float valve |
|-----------------|----------------|--------------------|----------------|

24-"Water tap" means:

- | | | | |
|----------|-----------|---------|-----------|
| 1. Pivot | 2. Faucet | 3. Slot | 4. Detent |
|----------|-----------|---------|-----------|

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25-When a liquid solidifies on cooling, it is said to

1. Liquefy 2. Vaporize 3. Freeze 4. Condense

سوالات تشریحی

26-Translate the following passage into Farsi:

نمره ۱.۴۰

Various kinds of devices, known as stabilizers, have been developed for the purpose of reducing the rolling motion of ships. In general these devices are of the "passive" or of the "active" type. The action of a passive stabilizer is initiated by the rolling itself. Such a device responds to the motion and takes corrective action.

27-Complete these sentences with nouns formed from the verb given in brackets.

نمره ۱.۴۰

- The and of water can be observed in everyday life. (evaporate, condense)
- Contraction causes a in the volume of the solid, and when it expands, it In volume. (decrease, increase)
- The of droplets. (form)
- The in state. (differ)
- The Of calcium compound makes water hard. (contain)

28-Answer or complete these questions:

نمره ۱.۴۰

- What shape is the cross-section of a cone?
- What shaped is a ball?
- What shape is the longitudinal section of a cylinder?
- A shaped with one curved line and one straight line is called
- A hexagon has sides.



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29- Fill the blanks with appropriate words from the list.

نمره ۱.۴۰

heads	military	fitted
Cutting	development	fulcrum
installed	machining	power plant

1. A wide variety of Operations can be performed on the lathe.
2. The mash hammer is used for driving chisels when Stone.
3. A hinge is a
4. A Penton wheel is used in cases where large of water are available.
5. There has been considerable controversy regarding who or what nation should have credit for the of the first successful turbojet engine.

30- Match the expression in column A with their appropriate equivalent in column B.

نمره ۱.۴۰

Column A	Column B
1. Emerging	a. a liquid or a gas
2. Air screw	b. region, area
3. Propel	c. to drive or push forward
4. Fluid	d. coming out
5. Ripe	e. propeller