

حضرت على (ع): ارزش هر كس به ميزان دانايي و تخصص اوست تعداد سوالات: تستى: ٣٠ تشريحى: ٠ سرى سوال: يك ١ زمان آزمون (دقيقه): تستى: ۶۰ تشريحي: ٠ عنوان درس: (زبان تخصصی،زبان تخصصی (ارشدفیزیک **رشته تحصیلی/کد درس:** فیزیک (کاربردی )،فیزیک (هسته ای )،فیزیک-،فیزیک (اتمی و مولکولی)،فیزیک (حالت جامد) ۱۲۱۲۱۶۰ - ،فیزیک (زمینه حالت جامد)،فیزیک (زمینه ذرات بنیادی )،فیزیک (زمینه گرانش وفیزیک نجومی )،فیزیک (زمینه هسته ای )،فیزیک (زمینه اتمی ومولکولی )،فیزیک(زمینه فیزیک بنیادی)۱۲۱۲۲۶۸ استفاده از ماشین حساب مهندسی محاز است Fill in the blanks with the best choice. 1-Satellite pictures has helped modern ...... to predict weather conditions. 2. physics 3. cosmology 4. meteorology 1. astronomy 2-If we push or pull an object, we are ...... a force on it. 2. creating 3. advancing 4. fixing 1. exerting 3-Atoms and molecules may vibrate when they are ...... by certain force. 3. applied 2. affected 4. subjected 1. undergone 4-Technologists are concerned with the practical ...... of the scientific findings. 4. account 1. manufacture <sup>2.</sup> experience 3. derivation 5-Unlike electromagnetic and gravitational forces, the strong and weak nuclear forces act only at distances ..... to nuclear dimensions. 3. equal 1. relative 2. comparable 4. typical 6-Two ...... observers will agree on whether the motion of an object is accelerated. 2. equivalent 3. inertial 4. free-falling 1. simultaneous 7-The differences between conductors and insulators can be .............. by the atomic mode. 1. defined 2. discussed 3. explained 4. introduced

8-Relativistic effects become important at speeds ...... that of light.

1. similar to

<sup>2.</sup> typical of

3. familiar of

4. comparable to

9-The atomic bomb is one of the ...... of the findings of nuclear physics.

1. applications

2. complications

3. advancements

4. instrumentations

10-A theory is not accepted until it is ...... by experiments

**1.** simulated

2. verified

3. demonstrated

4. figured out

Choose the best synonyms for the following words

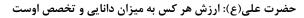
11-Significance

1. importance

2. idea

3. progress

4. difficult





سری سوال: ۱ یک

زمان آزمون (دقيقه): تستى: ۶۰ تشريحي: ٠

تعداد سوالات: تستى: ٣٠ تشريحي: ٠

عنــوان درس: زبان تخصصی،زبان تخصصی (ارشدفیزیک)

**رشته تحصیلی /گد درس:** فیزیک (کاربردی )،فیزیک (هسته ای )،فیزیک-،فیزیک (اتمی و مولکولی)،فیزیک (حالت جامد) ۱۲۱۲۱۶۰ – ،فیزیک (زمینه حالت جامد)،فیزیک (زمینه ذرات بنیادی )،فیزیک (زمینه گرانش وفیزیک نجومی )،فیزیک (زمینه هسته ای )،فیزیک (زمینه

اتمی ومولکولی )،فیزیک(زمینه فیزیک بنیادی)۱۲۱۲۲۶۸

#### 12-Arise

- 1. send out
- 2. figure out
- 3. appear
- 4. deep

### 13-Verify

- 1. converse
- 2. confirm
- 3. conform
- 4. confine

### 14-Depict

1. show

- 2. come together
- 3. consist of
- 4. limited

# 15-Exert

1. exactly

2. accurate

3. the act of moving

4. bring a force into use

#### Fill in the blanks with the best choice

## 16-a text which concerns the macroscopic variables of a material is probably about ......

**1.** Thermodynamics laws

2. heat

3. temperature

4. invention of vapor machines

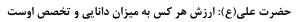
#### choose the best answer for the following guestion

### 17-What are the two extreme reference temperatures on the Fahrenheit scale?

- 1. Body temperature and the coldest ice-salt solution.
- 2. Ice-water mixture and body temperature.
- 3. The coldest ice-salt solution and boiling water.
- 4. Body temperature and boiling water.

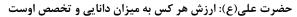
### 18-Why does the writer say: "Fahrenheit's choice of a scale was unfortunate?

- 1. It did not show very low temperatures
- 2. Its reference points were meaningless
- 3. The freezing and boiling points did not have certain numbers
- 4. It was difficult to construct it





<b>سری سوال:</b> یک ۱	: تستى : 60 تشريحى : 0	زمان آزمون (دقیقه)	عداد سوالات: تستى : 30٪ تشريحى: .
	ـنه گرانش وفیزیک نجومی )،فیز		<del>- "</del>
19-What is the main differ	rence between Fahrer	nheit and Celsius scales and	d Kelvin scale?
<ol> <li>Kelvin scale is not ar</li> </ol>	bitrary in its choice of	reference point.	
<sup>2.</sup> Kelvin scale is called	l an absolute tempera	ture scale.	
3. A degree on the Kel	vin scale is completely	different.	
<sup>4.</sup> Both Fahrenheit and	d Celsius scales use art	oitrary reference points.	
20-Which of the following	equations is wrong?		
<b>1.</b> 173 F = 351.48 K		<sup>2.</sup> 98.6 F = 37 C	
3. 460 F = 237.78 C		4. 0 C = 310 K	
Fill in the blanks with the	e best choice		
21-The larger the mass, th a change in its motion.		and the larger is	the force required to create
1. inertia	<sup>2.</sup> state	3. velocity	4. motion
22-Two people pushing fro apparent effect on the	= =		ame force may have no
1. accelerate	2. net	3. state	<sup>4.</sup> equilibrium
23-According to the Newto		on, a body will maintain a c	constant unless
1. acceleration	2. motion	3. velocity	<sup>4.</sup> balance
24-The instruments that p	roduce electric shock	s use strong	
1. circumtances	<sup>2.</sup> membrane	<sup>3.</sup> tunes	<sup>4.</sup> capacitors
25-Since he could not	the solution t	o the problem, he decided	l to ask for my help.
1. made up	2. figure out	3. brought out	4. stand Points
26-No one is sure how	birds are abl	e to travel long distances o	correctly.
1. migratory	2. conduction	3. wandered	4. specified
27-Be careful! There is a h	nigh voltage	in that wire	
1. current	<sup>2.</sup> armature	3. torque	4. core
28-The invention of radar	systems has made the	e of flving ohie	ects possible.
1. interaction		3. diffusion	





سرى سوال: يك ١

زمان آزمون (دقیقه): تستی: ۶۰ تشریحی: ۰

تعداد سوالات: تستى: ٣٠ تشريحى: ٠

عنوان درس: (زبان تخصصی،زبان تخصصی (ارشدفیزیک

رشته تحصیلی/کد درس: فیزیک (کاربردی )،فیزیک (هسته ای )،فیزیک -،فیزیک (اتمی و مولکولی)،فیزیک (حالت جامد) ۱۲۱۲۱۶۰ - ،فیزیک (زمینه حالت جامد)،فیزیک (زمینه ذرات بنیادی )،فیزیک (زمینه گرانش وفیزیک نجومی )،فیزیک (زمینه هسته ای )،فیزیک (زمینه

- 29-There are many differences between the . . . . . . . of men and women.
  - 1. subfield
- 2. anatomy
- 3. contemporary
- 4. diffusion
- 30-Technologists are concerned with the practical . . . . . . . of scientific findings.
  - **1.** interaction
- 2. complication 3. application
- 4. detection