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Pakistan Institute of Engineering and Applied Sciences(PIEAS) Admission Sample Test 01

ENGLISH:

Directions: For each question below you are given four choices. SELECT ANY ONE THAT IS MOST APPROPRIATE ANSWERALL ANSWER MUST BE GIVEN ON THE ANSWER SHEET.

YOUR ANSWERS MUST BE INDICATED BY LETTERS (A, B, C, D) AND NOT BY THE WORDS THEMSELVES.

READING COMPREHENSION

Direction: Please read the passage below and answer the questions on the basis of what is stated or implied. Passage 1

It is truth universally acknowledged that a single man in possession of a good fortune must be in want of a wife. However little known the feelings or views of such a man may be on his first entering a neighborhood, this truth is so well fixed in the minds of the surrounding families that he is considered as the rightful property of someone other of their daughters.

"My dear Mr. Bennet," said his lady to him one day, "have you heard that Nether field Park is let at last?" Mr. Bennet replied that he had not.

"But it is "returned she;" for Mrs. Long has just been here, and she told me all about it"

Mr. Bennet made no answer.

"So not you want to know who has taken it?" cried his wife impatiently.

"You want to toll me, and I have no objection to hearing it."

This was invitation enough.

"Why, my dear, you must know, Mrs. Long says that Nether field is taken by a young man of large fortune from the north of England; that he came down on Monday in a chaise and four to see the place, and was so much delighted with it, that he agreed with Mr. Morris immediately; that he is to take possession before Michaelmas, and some of his servants are to be in the house by the end of next week." "What is his name?"

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[&]quot;Bingley."

[&]quot;Is he married or single?"

[&]quot;Oh! Single, my dear, to be sure! A single man of large fortune; four or five thousand a year. What a fine thing for our girls!"

[&]quot;How so? How can it affect them?"

[&]quot;My dear Mr. Bennet," replied his wife, "how can you be so tiresome! You must know that I am thinking of his marrying one of them."

[&]quot;Is that his design is settling here?"

[&]quot;Design! Nonsense, how can you talk so! But it is very likely that he may fall in love with one of them, and therefore you must visit him as soon as he comes."



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"I see no occasion for that. You and the girls may go, or you may send them by themselves, which perhaps will be still better, for as you are as handsome as any of them, Mr. Bingley might like you the best of the party."

"My door you flatter me. I certainly have had my share of heavity, but I do not pretend to be entiting."

"My dear, you flatter me. I certainly have had my share of beauty, but I do not pretend to be anything extraordinary now. When a woman has five grown-up daughters she ought to give over thinking of her own beauty."

"In such cases, a woman has not often much beauty to think of."

"But. My dear, you must indeed go and see Mr. Bingley when he comes into the neighborhood."

"It is more than I engage for, I assure you."

"But consider your daughters. Only think what an establishment it would be for one of them. Sir William and Lady Lucas are determined to go, merely on tat account, for in general you know, they visit no newcomers. Indeed you must go, for it will be impossible for us to visit him if you do not."

"You are over-scrupulous, surely. I dare say Mr. Bingley will be very glad to see you; and I will send a few lines by you to assure him of my hearty consent to his marrying whichever he chooses of the girls: though I must throw in a good word for my little Lizzy."

"I desire you will do no such thing. Lizzy is not a bit better than the others; and I am sure she is not half so handsome as Jane, nor half so good-humored as Lydia. But you are always giving her the preference."

"They have none of them much to recommend them," replied he; "they are all silly and ignorant, like other girls; but Lizzy has something more of quickness than her sisters."

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"Mr. Bennet, how can you abuse your own children in such a way? You take delight in vexing me. You have no compassion of my poor nerves."

"You mistake me, my dear. I have a high respect for your nerves. They are my old friends. I have heard you mention them with consideration these twenty years at least."

"Ah! You do not know what I suffer."

"But I hope you will get over it, and live to see many young men of four thousand a year come into the neighbourhood."

"It will be no use to us, if twenty such should come, since you will not visit them."

"Depend upon it, my dear, that when there are twenty, I will visit them all."

- 1. A reading of the entire passage makes it clear that all of the following are true of the opening sentence except
 - A) it is ironically intended
 - B) Mr. Bingley is taken as an instance of that general truth
 - C) It is true as far as Mr. and Mrs. Bennet are concerned
 - D) It sets the author's tone for the entire passage
 - E) It offers the Bennet girls hope
- 2. Mr. Bennet
 - A) does not wish his daughters to marry
 - B) is a bitter man without emotion or humor
 - C) is afraid Bingley will find his wife attractive

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- D) generally follows his heart rather than his head
- E) probably regards his wife as "silly" too
- 3. All of the following are true of Mrs. Bennet except
 - A) she prefers good looks to cleverness
 - B) she understands her husband's dry humor
 - C) she highly competitive for her daughters' sakes
 - D) her nervous disposition is not undermining her health
 - E) she believes she was once extraordinarily beautiful

Passage 2

We can study our own cosmologies __in a specialized department of astronomy. But primitive cosmologies cannot rightly be pinned out for display like exotic Lepidoptera, without distortion to the nature of a primitive culture. In a primitive culture the technical problems have been more or less settled for generations past. The live issue is how to organize other people and oneself in relation to them; how to control turbulent youth, how to prevent usurpation of authority, or how to justify it. To serve these practical social ends all kinds of beliefs in the omniscience and omnipotence of the environment are called into play. If social life in a particular community has settled down into any sort of constant form, social problems tend to crop up in the same areas of tension or strife. And so as part of the machinery for resolving them, these beliefs about automatic punishment, destiny, ghostly vengeance and witchcraft crystallize in the institutions. So the primitive world view which I have defined above is rarely it self an object of contemplation and speculation in the primitive culture. It has evolved as the appendage of other social institutions. To this extent it is produced indirectly, and to this extent the primitive culture must be taken to be unaware of itself, unconscious of its own conditions.

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- 4. Primitive cosmologies are all of the following except
 - A) compounded part of belief and part of practice
 - B) carefully thought out abstract systems
 - C) linked to and the by-products of social institutions
 - D) part of an undifferentiated world view
 - E) the means of maintaining social order
- 5. The author implies that, because of the nature of primitive life, Western students of culture would make the most intellectual progress by
 - A) comparing primitive ghosts and demons with our own Halloween customs
 - B) comparing the world views of different primitive cultures
 - C) comparing primitive economies with modern money systems
 - D) comparing the social institutions of primitive cultures
 - E) remembering that our culture is both materially and spiritually superior to all primitive cultures

Passage 3

When I think how I have been swindled by books of Oriental travel, I want a tourist for breakfast. For years

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and years I have dreamed of the wonders of the Turkish bath; for years I have promised myself that I would yet enjoy one. Many and many a time, in fancy, I have lain in the marble bath, and breathed the slumberous fragrance of Eastern spices that filled the air; then passed through a weird and complicated system of pulling and hauling and drenching and scrubbing, by a gang of naked savages who loomed vast and vaguely through the steaming mists, like demons; then rested for a while on a divan fit for a king; then passed through another complex ordeal, and one more fearful than the first and, finally, swathed in soft fabrics, been conveyed to a princely saloon and laid on a bed of eiderdown, where eunuchs, gorgeous of costume, fanned me while I drowsed and dreamed, or contentedly gazed at the rich hangings of the apartment, the soft carpets, the soothing narghili, and dropped, at the last, into tranquil repose, lulled by sensuous odors from unseen censers, by the gentle influence of the narghili, Persian tobacco, and by the music of fountains that counterfeited the patter of summer rain.

That was the picture, just as I got it from incendiary books of travel. It was a poor, miserable imposture. The reality is no more like it than the Five Points are like the Garden of Eden. They received me in a great court, paved with marble slabs; around it were broad galleries, one above another, carpeted with seedy matting, railed with unpainted balustrades, and furnished with huge rickety chairs, cushioned with rusty old mattresses, indented with impressions left by the forms of nine successive generations of men who had reposed upon them. The place was vast, naked, and dreary; its court a barn, its galleries stalls for human horses. The cadaverous, half-nude varlets that served in the establishment had nothing of poetry in their appearance, nothing of romance, nothing of Oriental splendor. They shed no entrancing odors _____--just the contrary. Their hungry eyes and their lank forms continually suggested one glaring, unsentimental fact-they wanted what they term in California "a square meal."

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This prison was filled with hot air. When I had got warmed up sufficiently to prepare me for a still warmer temperature, they took me where it was____ into a marble room, wet, slippery, and steamy, and laid me out on raised platform in the center. It was very warm. Presently my hand with a coarse mitten, and began to polish me all over with it. I began to smell disagreeably. The more he polished the worse I smelt...

After a while he brought a basin, some soap, and something that seemed to be the tail of a horse. He made up a prodigious quantity of soap-suds, deluged me with them from head to foot, without warning me to shut my eyes, and then swabbed me viciously with the horse tail. Then he lifts me there, a snowy statue of lather, and went away. When I got tired of waiting I went and hunted him up. He was propped against the wall, in another room, asleep. I woke him. He was not disconcerted. He took me back and flooded me with hot water, then turbaned my head, swathed me with dry table-cloths, and conducted me a latticed chicken coop in one of the galleries, and pointed to one of those Arkansas beds. I mounted it, and vaguely expected the odors of Araby again. They did not come.

- 6. "I want a tourist for breakfast" makes sense because
 - A) the author himself was a tourist
 - B) travel books were written by tourists
 - C) the author had probably been irritated by his traveling companions
 - D) it stresses the manly, American, "meat-eating" qualities

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- E) the local food was not appetizing
- 7. Books of travel are called "incendiary" because
 - A) they are fit for burning
 - B) they fire false expectation
 - C) they arouse sexual passion
 - D) they are part of a hellish conspiracy
 - E) they describe the heat of Turkish bath
- 8. The author experienced a Turkish bath
 - A) in California
 - B) in the Near East
 - C) in prison
 - D) in Arkansas
 - E) only through the pages of books
- 9. The author employs all of the following rhetorical devices except
 - A) paradox
 - B) understatement
 - C) irony
 - D) metaphor
 - E) overstatement
- 10. All of the following techniques are used to produce humor except
 - A) a sense of cosmic purposelessness
 - B) exaggeration
 - C) slapstick
 - D) mixing sentimental writing with slang
 - E) pricking the bubble of one's over inflated expectations

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Passage 4

Most of our fog is of the type which takes the air as is and cools it down. The typical chain of events starts with the very commonplace flooding of the Los Angeles basin with marine air. But it must be an uncommonly shallow layer so the cooling will be concentrated on as small a mass of air as possible. This condition allows the maximum temperature drop for a given amount of cooling. Typically it would happen in the winter when the nights are long and the cooling takes place over the maximum length of time. Furthermore it takes a night on which the skies are clear. Under such conditions the moist marine air loses its heat by radiation to the sky ____no blanket of clouds above to intercept its radiation and radiate energy back. Finally it must be a calm night so that the shallow layer of cooled air next to the ground remains intact, does not get mixed up into the warmer air aloft. Given these conditions, we get fog that goes by the remarkably simple title of in the low spots on crisp windless winter dawns.

Such radiation fogs come in all shapes and sizes, as dictated by the terrain. The chilled air drains

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down and accumulates in the low areas____ a remarkable imitation of the behavior of water except that it moves much more slowly. The fog forms everything from small ponds to great inland seas. Every winter brings a lake of radiation fog several hundred miles long to the great central valley of California. This valley, a combination of the San Joaquin and Sacramento valleys, is surrounded completely by mountain ranges and runs about half the length of the state. It has the High Sierra on the east, the Tehachapis on the south, the Siskiyous on the north, and the coastal ranges on the west, with only the narrow Golden Gate as a chink in the wall. Often winter storms leave behind a shallow layer of clear, cold, moist air in this vast valley. Not infrequently the following anticyclone settles for a whole over the western United States, providing the valley with dry, cloudless, relatively warm air aloft for weeks at a time. The perfect prescription for a radiation fog of staggering dimensions. And the great central valley gets it! It's best seen on pictures taken by meteorological satellite. Once the fog forms, each night reinforces it with additional cooling that more the compensates for the small amount of daytime heating. Weeks may pass during which the sun is not seen. The fog is destroyed only when a storm arrives and applies the big broom with turbulent winds sweeping the length of the valley.

- 11. The primary purpose of the passage is
 - A) to describe weather conditions in the great central valley of California
 - B) to define two types of fog
 - C) to explain the causes of and give a remarkable instance of radiation fog
 - D) to compare temporary coastal fogs with long-lasting inland fogs
 - E) to show how a scientific understanding of fog can be gained by induction
- 12. Huge lakes of long-lasting fog are possible
 - A) when nights are windy and stormy
 - B) when the air aloft is moist and cool
 - C) during summer evenings
 - D) when the wind blows out to sea
 - E) when a train layer of cool ocean air is trapped

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- 13. During a radiation fog that persists for days
 - I. air at ground level cools in the long winter nights
 - II. the warmer upper air remains calm
 - III. the cooler lower air radiates its heat away
 - A) I and II
 - B) I and III
 - C) II and III
 - D) I, II, and III
 - E) none of the three
- 14. The "chink" of the narrow Golden Gate
 - A) is so narrow a passageway that fog cannot escape through it

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- B) is in the central valley of California
- C) allows ocean air to enter the central valley
- D) appears on meteorological pictures
- E) allows high warm winds from Arizona to enter the valley
- 15. The chief method the author uses in developing his ideas is
 - A) contrast
 - B) cause and effect
 - C) definition
 - D) paradox
 - E) comparison

LOGICAL REASONING:

- Kirkland's theory of corporate structure can be represented by a truncated pyramid. There are workers, middle management, and executive management, but no head of the corporation. Instead, all major decisions are made by committee. As a consequence, in Kirkland's structure, risky, cutting-edge technologies cannot be developed. Which one of the following is an assumption on which the argument depends?
 - A. Cutting-edge technologies are typically developed by entrepreneurs, not by big corporations.
 - B. Only single individuals will make risky decisions
 - C. An individual is more likely to take a gamble on his own than in a group.
 - D. All heads of corporations reached their positions by taking risks.
 - E. All cutting-edge technologies involve some risk.
- 17. Some people believe that witnessing violence in movies will discharge aggressive energy. Does watching someone else eat fill one's own stomach? In which one of the following does the reasoning most closely parallel that employed in the passage?
 - A. Some people think appropriating supplies at work for their own personal use is morally wrong. Isn't shoplifting morally wrong?
 - B. Some people think nationalism is defensible. Hasn't nationalism been the excuse for committing abominable crimes?
 - C. Some people think that boxing is fixed just because wrestling usually is. Are the two sports managed by the same sort of people?
 - D. Some people think that economists can control inflation. Can meteorologists make the sun shine?
 - E. Some people think workaholics are compensating for a lack of interpersonal skills. However, aren't most doctors workaholics?

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Women are equals to men in every activity, including badminton. Its true that Khalid beat Saira, but he played like a woman and she played like a man.

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The main problem with this argument is

- A. It is a biased toward feminism
- B. It assumes that Saira is the best woman badminton player
- C. It confuses people with playing styles
- D. It assumes that all women ought to play the same way
- E. It assumes that women are equal to men, and thus constitutes circular reasoning
- 19. Many more people in Pakistan who eat betel nut from local shops develop lung cancer than do those who don't eat betel nut.

In face of this evidence, how could a betel nut broker argue against the conclusion that betel nut cause lung cancer?

- A. He could argue that many things might cause lung cancer.
- B. He could argue that a single cause may be responsible both for the eating betel nut and for the cancer.
- C. He could argue that people have the right to endanger themselves if they so choose.
- D. He could argue that people who breathe die, yet no one accuses breathing of causing death.
- E. He could argue that people will eat bête nut anyhow, regardless of the evidence.
- Leave behind the emotional aspects of civilization and come back with us to the real Pakistan: Still the land of nightingale, the horse, buffalo and Jasmine; still spacious sprawling, majestic. Experience the freedom and serenity still to be found in

For this question, choose the completion that best fits the passage.

- A. The natural wonders of our land
- B. Our amazing urban centers
- C. The wild jungles of Sindh
- D. One's own subconscious
- E. The sprawling cities of the great central Punjab
- 21. Student Leader: If elected, I will try my best to effect those changes which I have been fighting for over the weeks. Together we can avoid bureaucratic scenario in the campus which have existed ever since my opponent took office. You all know what I stand for, and I call upon my honorable opponent to

For this question, choose the completion that seems most appropriate for this passage.

- A. Resign graciously
- B. Make his position as clear
- C. Stop lying to the public
- D. Get our campus more financial aid
- E. Join you in supporting me

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- 22. Since every kid I know likes candy, Asad must also like candy
 - We must infer from the speaker's statement that
 - A. The speaker does not know many kids
 - B. Asad is a kid
 - C. Asad likes anything sweet
 - D. The speaker is good friend of Asad
 - E. The speaker saw Asad eat candy
- A complete dinner at Food Street in Khanewal costs Rs. 500. A similarly delicious dinner in Tabbak Tikka Shop costs Rs. 300. Tabbak has a greater net profit than the Food Street restaurant. The only explanation for this is that the restaurant in Food Steet is poorly managed. The author's argument would be weakened if attention were drawn to the fact that
 - A. The owner of the Food Street restaurant are known to be very greedy
 - B. Tabbak takes a loss on every dinner it sells
 - C. There is much higher overhead at the Food Steet restaurant
 - D. Tabbak uses low quality meats
 - E. At Tabbak, two drinks are included in the price of the meal
- 24. Which of the following comes closest to being a factual statement?
 - A. Student: "Our whole political system is corrupt"
 - B. Doctor: "The price of petrol is bound to increase"
 - C. Accountant: "Cigarette smoking may be hazardous to your health
 - D. Carpenter: "These are the most comfortable chairs we make"
 - E. Coin collector: "Fewer than ten of these silver coins were minted in the year 1947."
- 25. I. All type of cigarettes cause cancer
 - II. "Dr. Nut" is the name of a new brand of cigarette

We can infer from the above statements that

- A. Cancer killed "Dr. Nut"
- B. "Dr. Nut" causes cancer
- C. Anyone with cancer takes "Dr. Nut"
- D. Nobody who regularly smoke gets cancer
- E. People with cancer prefer "Dr. Nut" over other cigarettes

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MATHEMATICS:

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Directions: For each question below you are given four choices. SELECT ANY ONE THAT IS MOST APPROPRIATE ANSWER ALL ANSWER MUST BE GIVEN ON THE ANSWER SHEET. YOUR ANSWERS MUST BE INDICATED BY LETTERS (A. B. C. D) AND NOT BY THE WORDS THEMSELVES. Which of the following lists of physical quantities consists only of vectors: (a) Time, temperature, velocity Force, volume, momentum (b) (c) Velocity, acceleration, mass (d) Force, acceleration, velocity If $(\vec{a} \times \vec{b})$ points along negative z-axis, then the vectors \vec{a} and \vec{b} must lie in (a) .zx-plane (c) .xy-plane (d) None of the above $k \times \hat{i} = \dots$ (b) - i(c) (d) -k(a) jWhat must be changing when a body is accelerating uniformly along a straight path? (a) The force acting on the body (b) The velocity of the body (c) The mass of the body The speed of the body (d) The horizontal range of a projectile is maximum when it is thrown at what angle with a certain velocity? 45^{0} (c) 60^0 90^{0} (b) A paratrooper jumping out of an airplane is an example of (a) Equilibrium (b) Static Equilibrium (c) Dynamic Equilibrium (d) None 7. The torque on a body will be zero if the angle between \vec{r} and F is zero or: (b) 180^{0} (d) None If we go away from the surface of the earth, a distance equal to the one third of the radius of the earth, the value of g will be multiplied by? (d) 16/9 (c) 1/9 (a) 1/2 (b) 9/16 9. For certain values F and d, work done is zero when the angle between the force and displacement is: 30^{0} 180^{0} (b) 10. The force acting on a body in the gravitational field at any point is equal to its: (a) Gravitational mass (b) Weight (c) Acceleration (d) Inertia 11. What is kinetic energy of a body of mass 10 kg moving with velocity 1m/s²? (b) 20 Joules (c) 5 Joules (a) 10 Joules (d) 2.5 Joules 12. Simple harmonic motion is mathematically represented as (c) $V \alpha - x$ (a) $a \alpha - x$ (b) $.a \alpha x$ (d) $F \alpha - x$ Downloaded these Sample Papers from: www.admission.pk

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13. The frequency of second pendulum is

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	(a)	1 hertz	(b)	2 hertz	(c)	0.5 hertz	(d)	None of the above
14.								
	(a)	F seconds	(b)	$\frac{1}{f}$ seconds	(c)	1 second	(d)	$\frac{1}{T}$ seconds
15.	(a)	rate of evaporation de Nature of liquid The area of the expos	-	-	(b) (d)	The temperature of All of the above	f liqui	id and air
16.		saturated vapour pres Increases with rise in May increase or decr	tem _l	perature	(b) (d)	Decreases with rise Remains unchange		-
	(C)	temperature			(u)	temperature		
17.	. Suppose the co-efficient of linear expansion of copper is 0.000156 per degree C. What will be the co-efficient of volume expansion of copper sphere per degree C?							
		Same as that of linea Three times as that o		ansion ar expansion		Two times as that of One half as that of		-
18.	cent	imeters will it contrac	t whe	and co-efficient of linear on cooled through 50° C	??			
	` '	1.001	` ′	0.150	` ′	0.001	(d)	0.01
19.				m of relative permittivi	-			
	(a)	$F' = \frac{\varepsilon_r}{F}$	(b)	$F' = \frac{F}{\varepsilon_r}$	(c)	$\mathbf{F}' = \mathbf{F}_{\varepsilon_{r}}$	(d)	$F' = \frac{F}{\mathcal{E}_0 \mathcal{E}_r}$
20.	(a)	acity of a capacitor de The distance between The size of the plates	n the	<u> </u>		e nature of the dielector of the above	ctric l	between the plates
21.		magnetic force F_m act on by	ting o	n charge q when it mov	es wit	th a velocity v throu	gh a ı	magnetic field B is
			(b)	$F_m = q v^2 \times B$	(c)	$F_m = q v^3 \times B$	(d)	$F_m = q v^4 \times B$
22.				e a magnet in the present Ferro magnets				
23.	In a	circuit, if a resistance	of th	ne conductor is increase	d then	current in the circu	it wil	1:
	(a)	Increase		Decrease (c) Rem		First	incre	ase and then
24.		phenomenon that the alled:	resist	ance of a metal falls ex	actly t	to zero at a few degr	ees a	bove absolute zero
	(a)	Conductivity	(b)	Low conductivity (c) Su	per-conductivity	(d)	Low resistivity
25.	Wh	y should a resistance b	e intr	roduced in a circuit in s	eries d	leliberately?		

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	(a)	To increase current and decrease Voltage	t (b)	To decrease cu and voltage	rrent (c) To mak zero	e current	(d)	To make voltage zero
Dov	wnlo	aded these Sai	mple F	Papers from	: www.e	ntrytest.c	<u>om</u>		
For	Onl	ine Test Prepar	ation	www.thecat	online.co	<u>om</u>			
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		PROPRIATE ANSWERA YOUR ANSWERS	LL ANS MUST BE	WER MUST BE G E INDICATED BY I	IVEN ON T LETTERS (A	HE ANSWEF , B, C, D) AND	R SHEET. D NOT BY TI	HE WOI	RDS THEMSELVES.
1.		tein explained the pl			Ü	Ü	•		
	(a) (c)	The mass of the ele The energy of light speed		es with	The	ht consists to photo-electrons	-	-	with atomic
2.		elevator initially accorde pendulum in the		will,		ends with u	niform spe	ed. Tin	ne period of a
	(a)	Increase and then decrease		(b) Decrease a increase	and then	(c)	Increase	(0	l) Decrease
3.	A si	mple arrangement by	y means	of which e.m.f,	s. are com	pared is kno	own		
	(a)	Voltmeter	(b)	Potentiometer	(c)	Ammeter		(d)	None of the above
4.	The	physics underlying t	the oper	ation of a refrige	erator mos	t closely res	embles the	physic	es underlying,
	(a)	The freezing of water	(b)	The melting of	ice (c)	The evapor water	ation of	(d)	A heat engine
5.		certain body of mas			ontal surfac	ce move dov	wn the incl	ined pl	ane then
	down (a)	ward component of .mgCosθ	weight i	.mgSinθ	(c)	.mg	Гапθ	(d)	None
6.	each	plane faces of two id other to form a usual in a real, inverted in	al conve	x lens. The dista	ance from	_	_		
	(a)	40 cm	(b)	80 cm	(c)	20 cm		(d)	60 cm
7.	The	law which gives def	inition o	of force is					
	(a)	Newton's law of gr	avitatio	n	(b)	Third lav	of motion	l	
	(c)	Second law of moti		_	(d)		of motion		
		aded these Sai	•	•			<u>pk</u>		
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8.	. Hygrometer is an instrument used for measuring								
	(a)	The compression of temperature	water	vapour with	(b)		amount of wa	ter vapo	our in the
	(c)	Specific gravity of a	iir		(d)		lensity of air		
9.	An	inertial frame of refer	ence is	s one whose:					
	(a)	Acceleration is zero			(b)		city is changi	ng with	time
10	(c)	Acceleration is unif		:4 -1	(d)		a is not zero		
10.	A n	noving car whose eng			o rest a				Earth's
	(a)	Inertia	(b)	Its mass	(c)	Fricti	on	(d)	gravitation
11.	(a) When two bodies separate instantaneously after collision, the collision is said to be perfectly elastic.(b) When to bodies separate instantaneously after collision, the collision is said to be perfectly inelastic								
12.	Acc (a)	cording to the second Fores		motion, acceleration Time	is prop (c)	ortiona Mass		(d)	Distance
14.		en the object is placed At the focus	d at 2f B)	of convex lens then t At 2f	he imag C)	ge form Beyon		e lens w D)	vill be Between f and 2f
15. V	Vhen	the object is placed a	t princ	eipal focus of a conve	x lens	then th	e image is for	rmed at	
A	A)	Same distance	B)	Infinity	C)	Same	side of lens	D)	Centre of curvature
16. V	Vhicl	h one of the following	canno	ot measure wavelengt	h of X-	-rays in	any way		
A	A)	Bragg's law	B)	Diffraction grating	C)	Comp	ton effect	D)	Photo electric effect
		n one of the following Interference	g prope B)	erties is not found in b Diffraction	ooth soo C)	und and Polari	•	D)	Reflection
18.	The (a)	e relation between tim $T = 2 \pi \omega$	-	od T and angular velocity $T = \omega/2\pi$	ocity ω	-	In by $T = 2\pi / \omega$	(0	d) $T = v \omega$
19.	Wh (a)	nen a body moves in a 0^0	circle (b)	^ _	ts linear	r veloci	ity v and ang 90 ⁰		ocity ω is d) 180 ⁰
20.	П r (a)	radians = 90^0	(b)	180^{0}		(c)	60^{0}	(d)	30^{0}
21.	In 1	racing car moving alo	ng a ci	rcular path the friction	on at the	e whee	ls and bankin	ng of roa	nds provides the
	(a)	Centripetal Force	(b)	Centripetal Acceleration		(c)	Centre of Mass	(d)	Centrifugal Force

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22.	The time (a) One	•		ne time required to trave 180 degrees	erse .	by a revo	_	-	90 degrees
23.	Which α (a) α-μ			es can induce artificial β-particle		-activity in certa γ-particle			of the above
24.	Identify (a) ₁ H	the alpha-particle		$_{1}\mathrm{H}^{2}$	(c)	₁ H ³	(d)	₂ He ⁴	
25.	Which α (a) α-μ	0.1		es move with velocity α β-particle	_	nt? γ-particle	(d)	Allo	of the above
Dov	vnloade	d these Sam	ple	Papers from: ww	w.en	trytest.com			
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<u>CHI</u>	<u>EMISTR</u>	<u>Y</u> :							
	-		S MU	T BE GIVEN ON THE ST BE INDICATED BY TES.			D) ANI	D NO	Г
1.	Spodume	ene is the mineral	of						
1.	(a) Lith			Sodium	(c)	Potassium		(d)	None
2.	Indicate t (a) H ₂ C	he most viscous	-	s the following. CH ₃ OH	(c)	CH ₃ CH ₂ OCH ₂	2CH ₃	(d)	CH ₃ OCH ₃
3.		_	-	sses nitrogen is reduced $NO_2^- \rightarrow NO_2^-$		$NO_2^- \rightarrow NO_3^-$		(d)	$NH_4^+ \rightarrow N_2$
4.	(a) Ana	not the mineral of lcite omite	of Sili	con		(b) Asbestos(d) Zircon			
5.	Substance	that affects the i	ate of	f reaction but remains u	ınalte	red at the end o	f the rea	action	is called
	(a) Cata	alyst	(b)	Acid	(c)	Base	(d)	None	e of the above
6.	If one mole of solute is dissolved in one liter of solution, the solution is called								
	(9)	ne of the owing	(b)	One molal	(c)	One molar		(d)	One normal
7.	If one gra	m equivalent of a	a solu	te is dissolved in one li	ter of		lution i	is call	ed
	(a) One	normal	(b)	One molal	(c)	One molar	(d)	No	ne of the above

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8.	it is called			ne of a given mass of a g			-		
	(a) Coul	omb's Law	(b)	Boyle's Law	(c)	General Gas Law	(d)	Charles Law	
9.		ll and very larg ificant igures	-	tities are expressed in to Logarithm (c)			onenti	al notation	
Dov	vnloade	d these Sar	mple	Papers from: www	w.ad	mission.pk			
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10.	O. The number of atoms or molecules whose concentration determine the rate of reaction is called								
	(a) Mole	ecularity	(b)	Rate of reaction	(c)	Order of reaction	(d)	None of the above	
11.	Electrolyte	es which ionize	e to a v	ery small extent in a so	lutior	are called			
	(a) Neut	ral	(b)	Weak electrolytes	(c)	Strong electolytes	(d)	None of the above	
12.	The chang	e of concentra	tion of	reactants or products is	calle	ed,			
	(a) Orde	r of reaction	(b)	Rate of reaction	(c)	Molecularity	(d)	None of the above	
13.	Reactions	which proceed	in the	forward direction and g	go to c	completion are called			
	(a) Irrev	versible tion	(b)	Equilibrium reaction	(c)	Reversible reaction	(d)	None of the above	
14.	The substa	ance through w	hich e	lectricity cannot flow ir	n molt	ten state or solution fo	rm is	called,	
	(a) Mole	ecularity	(b)	Conductor	(c)	Electrolyte	(d)	Non electrolyte	
15.				ount of heat evolved or veral steps is called	absor	bed in a process in the	e same	e whether the	
	` /	ton's law			(b)	First law of thermod	•		
	` /	's law			(d)	Law of conservation			
16.	called,			in 100g of solvent to fo	orm s		_	-	
	(a) Dissol	lution	(b)	Solubility	(c)	Solution (d)	No	one of the above	
17.	distributed in bonding and antibonding molecular obrital of different energies is called,								
10	, ,	e of the follow	•	(b) V.B theory	(c)	•	(d)	M.O. theory	
18.		•		olved in water only a si				T	
10	` /	ains constant	` ,	Ionized	(c)	Deionized	(d)	Increases	
19.	The mixture (a) Coal		(b)	are 50% hydrogen, 35% Coultar		nane and 8% carbon n Coke (d)		e of the above	

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- 20. In common ion effect the degree of ionization is suppressed by the addition of
 - (a) A compound
- (b) Another electrolyte
- (c) An element
- (d) None of the above

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- 21. The reaction in which heat is absorbed from the surrounding to the system is called
 - (a) Endothermic reaction
- (b) Fast reaction
- (c) Slow reaction
- (d) Exothermic reaction
- 22. The process in which solvent particles surround solute particles is called,
 - (a) Hydration
- (b) Hydrolysis
- (c) Saturation
- (d) Salvation
- 23. If one mole of solute dissolved in one Kg of solvent, the solution is called
 - (a) One normal
- (b) One molar
- (c) One molar
- (d) None of the above
- 24. Equilibrium involving reactants and products in more than one phase is called
 - (a) Heterogeneous
- (b) Hemogenouss
- (c) Dynamic
- (d) None of the above

- 25. Two double bonds are present between the atoms of the molecule
 - (a) NH_3
- (b) H₂O

(c) CO_2

(d) H_2SO_4

END OF TEST

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<u>X</u>



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