

RESOURCES FOR SSC-II GENERAL SCIENCE

ZUEB EXAMINATIONS 2021



PREFACE:

The ZUEB examination board acknowledges the serious problems encountered by the schools and colleges in smooth execution of the teaching and learning processes due to sudden and prolonged school closures during the covid-19 spread. The board also recognizes the health, psychological and financial issues encountered by students due to the spread of covid-19.

Considering all these problems and issues the ZUEB Board has developed these resources based on the condensed syllabus 2021 to facilitate students in learning the content through quality resource materials.

The schools and students could download these materials from <u>www.zueb.pk</u> to prepare their students for the high quality and standardized ZUEB examinations 2021.

The materials consist of examination syllabus with specific students learning outcomes per topic, Multiple Choice Questions (MCQs) to assess different thinking levels, Constructed Response Questions (CRQs) with possible answers, Extended Response Questions (ERQs) with possible answers and learning materials.

ACADEMIC UNIT ZUEB:

1: Multiple Choice Questions:

The Multiple-Choice Questions with a stem, correct answer and 3 distractors or plausible wrong answers format is designed to assess the content and thinking of students from; R (Remembering); U(Understanding) and A (Applying, Analyzing, Evaluating, Creating). The questions are also classified into three difficulty levels accordingly; D (DIFFICULT), M (MODERATE), E (EASY)

HOW TO ATTEMPT AN MCQ:

MCQ:

- EACH MCQ HAS FOUR OPTIONS, A, B, C AND D. SELECT ONE OPTION AS THE BEST ANSWER AND FILL IN THE CIRCLE OF THAT OPTION, FOLLOWING THE INSTRUCTIONS GIVEN BY THE INVIGILATOR.
- USE BLACK PEN/PENCIL TO FILL IN THE CIRCLE.

Correct Way	Wrong Ways			
1	1	2	3	
a	a	a	a	
Ъ	b	b	b	
C	\otimes	©	\bigcirc	
<u>d</u>	\bigcirc	\bigcirc	d	

Chapter	MC	Qs	Answer Key	Cognitive Level	Difficulty Level
Energy	1.	Which one of the following is best to define	D	K/R	90%
	Ener	gy			
	a)	Fuel			
	b)	Work			
	$\begin{pmatrix} c \end{pmatrix}$	Force			
	\mathbf{d}	Ability of body to do work			
	2.	Work is done whenever			
	a)	a car is crossed	В	K/R	90%
	b)	a body is moved by force			
	c)	a ball is thrown			
	d)	None			
	3.	Force cannot be exerted without any source			
	of	1 0200 cumot ee cherron wrane and searce			
			C	U	80%
	a)	light			
	b)	air			
	c)	any source of energy			
	d)	movement			
	4.	The energy which is stored in a body due to			
	its po	osition is called	C	K/R	90%
	a)	Kinetic Energy			
	b)	Thermal Energy			
	c)	Potential Energy			
	d)	Radiant Energy			
	5.	Kinetic Energy is also known as which one			
	of th	e following energy?	_		000/
	a)	Positioned Energy	В	K/R	90%
	b)	Energy in Motion			
	$\begin{pmatrix} \mathbf{c} \end{pmatrix}$	Stored up Energy			
	(d)	Chemical Energy			
	(a)	Chemical Energy			
	6.	Substances that contain potential energy in			
	the f	orm of heat are said to possess which of the			
		wing energy?	D	U	90%
	a)	Mechanical Energy			
	b)	Electrical Energy			

(c)	Radiant Energy			
$\begin{vmatrix} \mathbf{d} \end{vmatrix}$	Heat Energy			
,	<i>0</i>			
7.	Coal, oil and natural gas are sources of			
whic	h energy?	В	K/R	90%
(a)	Non-conventional			
b)	Conventional			
(c)	Kinetic			
(d)	Stored			
8.	An electrical energy which is formed by the			
	of the earth is known as one of the following.			
l lieut	of the curin is known as one of the following.	A	K/R	90%
a)	Geo-thermal Energy	11	11/11	7070
b)	Bio-mass Energy			
c)	Tidal Energy			
(d)	Heat Energy			
	· ·			
9.	Energy obtained from biological mass such			
as we	ood, molasses, straws, bagasse and animal			
dung	is called	C	K/R	90%
(a)	Electrical Energy			
(b)	Mechanical Energy			
(c)	Bio-mass Energy			
(d)	Earth Energy			
10.	Which of the following energy is released			
	the nucleus of atom?	В	U	90%
	the nacious of atom.	D	O	7070
a)	Uranium Energy			
b)	Nuclear Energy			
c)	Atomic Energy			
d)	Heat Energy			
11.	When running water moves a turbine the	_		
-	ntial energy of water is changed into which of	В	U	70%
the fo	ollowing energy?			
	Vinatic Energy			
a) b)	Kinetic Energy Mechanical Energy			
(c)	Electrical Energy			
(d)	Heat Energy			
	Tout Divisy			
12.	Solar Energy is also known as which of the	A	K/R	90%
	wing?		-	
a)	Radiant Energy			
(b)	Thermal Energy			
(c)	Mechanical Energy			

	d) Chemical Energy			
	7, 5 5 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7			
	13. Which of the following is the most			
	dangerous air-pollutant?			
		D	U	70%
	a) Dust Particles			
	b) Garbage			
	c) Carbon Dioxide d) Carbon Monoxide			
	d) Carbon Monoxide			
	14. Which of the following causes air pollution			
	the most these days?	В	U	80%
		_		
	a) Animal Waste			
	b) Burning of fuels			
	c) Stone crushing industry			
	d) Liquid waste from industries			
	1.5			
	15. What are aerosols?			
			IZ/D	000/
	a) Harmful gases	A	K/R	90%
	b) Small material particlesc) Radioactive substances			
	d) Water vapour			
	d) water vapour			
	16. In order to reduce air pollution which of the			
	following we should also reduce			
		A	\mathbf{U}	70%
	a) The number of vehicles			
	b) The number of trees			
	c) The electrical appliances			
	d) Hydral Power plants			
Current	1. From following, through which the	В	K/R	90%
Electricity	electrical energy can be easily transferred from one	D	K/K	9076
Electricity	point to another			
	1			
	a) Convertors			
	b) Conductors			
	c) Battery			
	d) Copper wire			
	-,			
	2. Which of the following is in large number			
	in a Copper wire?	В	K/R	90%
	in a copper whe.	D	IX/IX	7070
	a) Electrons			
	,			
	b) Free electrons			
			i	
	c) Fast electronsd) Positive electrons			

3. From following, which is the path through which an electric current passes?	D	K/R	90%
a) Electrons			
b) Current Circuitc) Electric terminal			
d) Electric circuit			
4. When electrons flow through a wire what is			
it called?	C	K/R	90%
a) Electric force			
b) Electric circuit			
c) Electric current			
d) Electric work			
5. The rate of flow of charge through a certain			
cross-section is called			
	A	K/R	90%
a) Current			
b) Unit current			
c) Amperes			
d) Ammeter			
6. Which of the following is used to measure			
flow of electrons?	A	K/R	90%
a) Voltmeter			
b) Ammeter			
c) Conductor			
d) Capacitor			
7. In which of the following voltage is the			
driving force?			
	D	U	80%
a) Electric current	_		
b) Electrical circuits			
c) Electric charges			
d) Electric circuits			
8. What is the "difference in potential energy"			
called in electric terms?		T T	ρω.
	C	U	80%
a) Volts			

(b)) Volts units			
(c)				
$\begin{pmatrix} d \end{pmatrix}$	_			
,				
9.	Energy or work (w) per unit charge (Q) is			
kr	nown as one of the following.			
	_	D	U	90%
a)	Work			7070
b)	volts			
(c)	Ampere			
d)) Voltage			
10	2			
fo	ollowing?			
	Volta			
a)				
b)		В	K/R	90%
(c)				
(d)	Voltmeter			
11	1. If the value of (V) is altered then the value			
	f current (I) is also found to be one of the			
	ollowing?			
	mownig:	_		
a)	Increase	D	U	70%
(a) (b)				
(c)				
d)) Change			
12	2. How many parts at least does every circuit			
	as?			
				
a)	Two	D	K/R	90%
(b)			13/14	7070
(c)				
d)				
13	9			
us	sed for controlling, opening, closing of circuits?			
	Controllor			
a)		C	K/R	90%
(b)				
(c)				
(d)	Switch boards			
•		•		

14. The term "pole" refers to which kind of arm			
in a switch?	A	K/R	90%
a) Movable	A	K/K	9070
a) Movableb) Static			
c) Constant			
d) Continuous			
a) Commods			
15. In electrical circuits the conductors are			
interconnected in how many ways			
	В	K/R	90%
a) Three			
b) Two			
c) Unlimited			
d) Limited			
16. If an insulator such as Glass, is introduced			
between the plates, how does its capacity to store			
charge reacts?			
	D	U	70%
a) Decreases			
b) Remain same			
c) Gradually decreases			
d) Increases			
,			
17. In which of the following the stored			
electrical energy can be utilized according to need?			
		T T	000/
a) Conductors	C	U	80%
b) Convertors			
c) Capacitors			
d) Insulator			
18. Which of the following is the unit of			
capacity?			
capacity.			
a) 1 volt			
b) Farad	В	K/R	90%
c) 1 coulomb			
d) Coulomb			
19. A Transformer is a device which makes			
use of one of the following induction for stepping			
up or down an alternating EMF.	C	K/R	90%

a)	Different			
(b)	Constant			
$\begin{pmatrix} \mathbf{c} \end{pmatrix}$	Mutual			
d)	Continuous			
(u)	Continuous			
20.	Coil which has the smaller number of turns			
	ries which of the following current?	В	K/R	90%
	č	В	IX/IX	90 /0
a)	Smaller			
b)	Larger			
c)	Higher			
d)	Lighter			
21	Which of the following account because a			
21.	ε			
	all amount of the flux associated with the			
pri	mary coils fails to pass through the secondary.	A	K/R	90%
a)	Loss of energy			
(b)	Gain of energy			
(c)	Loss of current			
d)	Gain of current			
	5444 51 64216H3			
22.	Current which can be obtained by			
cor	nnecting the two ends of a conductor to the			
	minals of a battery known as which of the			
	lowing			
		В	U	80%
a)	Alternating current			
b)	Direct current			
(c)	Negative flow of current			
(d)	Positive flow of current			
	2 obtained from of editions			
23.	Current which does not change its direction			
	known as which of the following?			
a)	Alternating current	C	U	80%
b)	Alternative current			
\mathbf{c}	Direct current			
d)	Continuous current			
24	Unidianational meeting is used for meeting.			
24.				
the	following?			
l a)	Alternating current			
b)	Direct current	В	K/R	90%
$\begin{pmatrix} c \end{pmatrix}$	Alternative current			

d) Continuous current			
25. Current which changes its direction many			
times a second knows as which of the following?			
, B.			
a) Direct current	D	K/R	90%
b) Alter current			
c) Discontinuous current			
d) Alternating current			
26. The number of cycles of current completed			
in one second is called which of the following of			
the A.C?			
a) Capacity	C	U	80%
b) Capability			00 / 0
c) Frequency			
d) Energy			
,			
27. The frequency of A.C generated by the			
different power stations in Pakistan is one of the			
following?			
a) 60 Hz	D	K/R	80%
b) 30 Hz			
c) 100 Hz			
d) 50 Hz			
28. If the ends of wire are connected to the			
terminals of a battery an electric field will be set up			
around which of the following?			
5	A	U	80%
a) Around the wire	A		0070
b) Around the electric field			
c) Around the electric lines			
d) Around the path lines			
29. The path through which electric charge			
flows through the wires is called which of the			
following?			
	C	U	80%
a) Conduction wires			
b) Circuit lines			
c) Circuit			
d) Current lines			

30.	Ampere measures the flow of electricity or			
numbe	er of electrons that pass through any given			
point i	in an electrical conductor in which of the		17/D	000/
follow	ving duration?	A	K/R	80%
a)	One second			
b)	Ten seconds			
c)	Three seconds			
d)	One second			
31.	A force of attraction exists between a			
positiv	ve and a negative charge knows as which of	D	IZ/D	000/
the fol	llowing?	D	K/R	90%
a)	Current			
b)	Flux			
c)	Electric field			
d)	Voltage			
32.	(V) is symbol of one of the following.			
a)	Watts		K/R	90%
b)	work	C		
c)	Volts			
d)	Energy			
33.	Which of the following amount of energy is			
used to	o move 1 coulomb of charge from one point			
to the other?		C	U	80%
2)	2.5 ioula		U	OU 70
a)	2.5 joule			
b)	10 joule 1 joule			
c)	•			
d)	12 joule			
34.	The flow of electrons of electric current is			
	d resistance by the free electrons of the wire			
or con	ductor due to one of the following.	В	U	80%
a)	Even moment			
b)	Uneven moment			
c)	Mutual nature			
d)	Even nature			

35.	"The current passing through a conductor is	С	K/R	90%
directl	y proportional to the potential difference			
applie	d across its ends, provided the temperature			
	her physical condition of the conductor are			
kept as	s which of the following?			
a)	Variable			
b)	Discontinuous			
c)	Constant			
d)	Changeable			
36.	The above statement (i-e MCQS 38) is			
referre	ed to as one of the following.	D	K/R	90%
a)	Newton's law			
b)	Coulomb's law			
c)	Ampere's law			
d)	Ohms law			
37.	Scientist who gave the statement which is			
given	above in MCQS 38 was from which of the			
follow		A	K/R	90%
		A	IX/IX	70 70
a)	German Physicist			
b)	Greek Physicist			
c)	Iranian Physicist			
d)	Egyptian Physicist			
38.	Electricity usually comes to our homes by			
two w	ires or lines, the live (L) and one of the			
follow	ing.	D	U	80%
		_		
a)	Positive			
b)	Negative			
c)	Earth			
d)	Neutral			
39.	The commercial unit of electric energy is			
	as one of the following.	D	K/R	90%
a)	Ohm			
b)	Volt			
c)	Farad			
d)	Kilo-watt-hour			

	40.	Which one is connected in series with the	C	U	80%
	live v	vire in the electric circuit of a house?			
	a)	Galvanometer			
	b)	Voltmeter			
	c)	Fuse			
	d)	Ammeter			
	41.	The substance used as a medium between			
		vo plates of a capacitor is known as one of the	C	\mathbf{U}	80%
	follov	wing.		U	00 /0
	a)	Conductor			
	b)	Semi-conductor			
	c)	Dielectric			
	d)	Electrolyte			
Basic	1.	Electronic is a branch of one of the	В	K/R	90%
Electronics	follo			12/11	70,0
	10110				
	a)	Quantum physics			
	b)	Physics			
	c)	Nature			
	d)	Applied physics			
	2.	All four valence electrons of each atom			
		which of the following with their neighboring	A	K/R	90%
	atom	s?			
		Constant bond			
	a)	Covalent bond			
	b)	Ionic bond			
	c)	Coordinate covalent bond			
	d)	Sigma bond			
	3.	A p-n junction is fabricated by placing what			
		ant of say indium on a plate of n-type			
		anium.	C	\mathbf{U}	90%
	a)	Large amount			
		G			1
	b)	Small amount			
	b)	Small amount zero amount			

4. Indium on heating to about which of the following melts and diffuses?	D	K/R	90%
a) 560 °C			
b) 500 °C			
c) 510 °C			
d) 550 °C			
5. Indium diffuses through a small part of		K/R	90%
which of the following germanium?	C	IX/IX	<i>90</i> 70
a) p-type			
b) v-type			
c) n-type			
d) np-type			
6. Which of the following base is used to fix			
C	D	K/R	90%
the p-n junction to which leads are attached?	D		
a) Copper			
b) Aluminum			
c) Cobalt			
d) Brass			
7. Diode allows electric current to flow in			
which direction?			
	A	K/R	90%
a) One directionb) Four directions			
,			
,			
d) Unlimited directions			
8. Diode helps to separate different			
frequencies or waves of different wave lengths of			
which of the following?	C	\mathbf{U}	80%
a) Television waves			
b) Electric waves			
c) Radio waves			
d) Both A & C			

9. Heinrich Hertz was which scientist?			
a) Egyptian			
b) Greek	C	K/R	90%
c) German			
d) Iranian			
10. Like light waves radio waves go out in all			
directions from their source at the speed of light as	C	K/R	80%
one of the following.			
a) 186600 miles per second			
b) 186600 miles per minute			
c) 186000 miles per second			
d) 186000 miles per minute			
a) 100000 nines per ninate			
11. In which year human sound was transmitted			
for the first time?			
		K/R	90%
a) 1906	A	IX/IX	<i>90</i> /0
b) 1960			
c) 1967			
d) 1690			
12. Kinescope is commonly known as one of			
12. Kinescope is commonly known as one of the following.			
the following.			
a) Television tube			
b) Frequency tube	\mathbf{C}	K/R	90%
c) Picture tube			
d) None of these			
13. Which of the following control the			
operations of satellites orbiting around the earth?			
a) Satellite management	C	K/R	90%
b) Electricians		IX/ IX	20 70
c) Electronics			
d) Physics			
a) Satellites are designed to serve as			
worldwide communication networks to scan one of			
the following.	A	K/R-	80%
Earth's natural resources		U	
b) Total number of fields			
c) Both A & B			
d) None of these			

14.	Highly pure silicon and germanium crystals		K/R	90%
	lmost complete insulators especially at which e following?	C		
a)	Medium temperatures			
b)	Highest temperatures			
c)	Low temperature			
d)	Both A & B			
15.	Germanium can also be made one of the			
follo	wing.	D		
		D	K/R	90%
a)	p-type conductor		11,11	7070
b)	n-type conductor			
c)	p-type semiconductor			
d)	n-type semiconductor			
16.	Heinrich was the first scientist who			
prod calle	uced waves through air. What are the waves d?			
a)	Television waves	C	K/R	90%
b)	Frequency waves			
c)	Radio waves			
d)	All of the above			
17.	Radio tube in television is also known as			
one o	of the following.		IZ/D	
	Television tube	D	K/R	90%
a)				2070
b)	Mosaic Audio amplifiar			
c)	Audio amplifier Jacobson			
d)	Iconoscope			
18.	Radio tube is made entirely of which of the			
follo	wing?		K/R	
a)	Silicon chip	В	13/13	90%
$\begin{vmatrix} \mathbf{a} \\ \mathbf{b} \end{vmatrix}$	Glass			70 70
(c)	Rubber			
(d)	Aluminum			
(u)	7 Manimum			

appears is known as one of the following. a) Transmitter b) Television tube c) Kinescope d) Iconoscope 20. Picture tube also known as one of the following. a) LCD b) Cathode ray tube c) Anode ray tube d) Both A & C 21. Electronic television was first successfully demonstrated in which year? A) 1927 b) 1937 c) 1847 d) 1967 22. The materials in which electric current can flow easily due to their low resistance are called one of the following. a) Insulators b) Semiconductor c) Conductors d) Capacitors 23. The electric resistance of a semi-conductor behaves as one of the following if temperature is increased. a) Decreases b) Increases c) Does not change d) Changes 24. The current passing through which of the following is directly proportional to the potential difference across its ends?	19. Long tube of a T.V set on which image	С	K/R	90%
b) Television tube c) Kinescope d) Iconoscope 20. Picture tube also known as one of the following. a) LCD b) Cathode ray tube c) Anode ray tube d) Both A & C 21. Electronic television was first successfully demonstrated in which year? A K/R 909 a) 1927 b) 1937 c) 1847 d) 1967 22. The materials in which electric current can flow easily due to their low resistance are called one of the following. a) Insulators b) Semiconductor c) Conductors d) Capacitors 23. The electric resistance of a semi-conductor behaves as one of the following if temperature is increased. a) Decreases b) Increases c) Does not change d) Changes 24. The current passing through which of the following is directly proportional to the potential	appears is known as one of the following.			
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b) Cathode ray tube c) Anode ray tube d) Both A & C 21. Electronic television was first successfully demonstrated in which year? a) 1927 b) 1937 c) 1847 d) 1967 22. The materials in which electric current can flow easily due to their low resistance are called one of the following. a) Insulators b) Semiconductor c) Conductors d) Capacitors 23. The electric resistance of a semi-conductor behaves as one of the following if temperature is increased. a) Decreases b) Increases c) Does not change d) Changes 24. The current passing through which of the following is directly proportional to the potential	a) LCD	В	K/R	90%
c) Anode ray tube d) Both A & C 21. Electronic television was first successfully demonstrated in which year? A K/R 909 a) 1927 b) 1937 c) 1847 d) 1967 22. The materials in which electric current can flow easily due to their low resistance are called one of the following. a) Insulators b) Semiconductor c) Conductors d) Capacitors 23. The electric resistance of a semi-conductor behaves as one of the following if temperature is increased. a) Decreases b) Increases c) Does not change d) Changes 24. The current passing through which of the following is directly proportional to the potential	,			
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one of the following. a) Insulators b) Semiconductor c) Conductors d) Capacitors 23. The electric resistance of a semi-conductor behaves as one of the following if temperature is increased. a) Decreases b) Increases c) Does not change d) Changes 24. The current passing through which of the following is directly proportional to the potential	flow easily due to their low resistance are called	C	IT	8U07
b) Semiconductor c) Conductors d) Capacitors 23. The electric resistance of a semi-conductor behaves as one of the following if temperature is increased. a) Decreases b) Increases c) Does not change d) Changes 24. The current passing through which of the following is directly proportional to the potential	one of the following.		U	00 /0
c) Conductors d) Capacitors 23. The electric resistance of a semi-conductor behaves as one of the following if temperature is increased. a) Decreases b) Increases c) Does not change d) Changes 24. The current passing through which of the following is directly proportional to the potential	a) Insulators			
d) Capacitors 23. The electric resistance of a semi-conductor behaves as one of the following if temperature is increased. a) Decreases b) Increases c) Does not change d) Changes 24. The current passing through which of the following is directly proportional to the potential	b) Semiconductor			
23. The electric resistance of a semi-conductor behaves as one of the following if temperature is increased. a) Decreases b) Increases c) Does not change d) Changes 24. The current passing through which of the following is directly proportional to the potential	c) Conductors			
behaves as one of the following if temperature is increased. a) Decreases b) Increases c) Does not change d) Changes 24. The current passing through which of the following is directly proportional to the potential	d) Capacitors			
increased. a) Decreases b) Increases c) Does not change d) Changes 24. The current passing through which of the following is directly proportional to the potential	23. The electric resistance of a semi-conductor			
a) Decreases b) Increases c) Does not change d) Changes 24. The current passing through which of the following is directly proportional to the potential	behaves as one of the following if temperature is		TI	Q00/
b) Increases c) Does not change d) Changes 24. The current passing through which of the following is directly proportional to the potential	increased.	A	U	00 70
c) Does not change d) Changes 24. The current passing through which of the following is directly proportional to the potential	a) Decreases			
d) Changes 24. The current passing through which of the following is directly proportional to the potential	b) Increases			
24. The current passing through which of the following is directly proportional to the potential	c) Does not change			
following is directly proportional to the potential	d) Changes			
	24. The current passing through which of the			
difference across its ends?	following is directly proportional to the potential			
	difference across its ends?			
a) Insulator C U 80%	a) Insulator	C	TI	80%
b) Semi-conductor	b) Semi-conductor			OU %0

	c)	Conductor			
	d)	Capacitor			
	,	•			
Science and	1.	Pakistan Atomic Energy Commission			
Technology	(PAE	C) was established in which year?			
				K/R	90%
	a)	1959	A		
	b)	1969			
	c)	1949			
	d)	1979			
	2.	Defense Sciences Organization (DSO) was			
	create	ed in which year?			
	۵)	1072			
	a)	1972	D	K/R	90%
	b)	1952			
	c)	1948			
	d)	1962			
	3.	Irrigation Research Council (IRC) was			
		ed in which year?			
	010000				
	a)	1954			
	b)	1964	В	K/R	90%
	c)	1950			
	d)	1949			
	4.	National Science Council of Pakistan was	~		222
	establ	lished in which of the following?	С	K/R	90%
		4000			
	a)	1990			
	b)	1982			
	c)	1962			
	d)	1952			
	5.	Research Division of Science and			
		nology was constituted in which year?			
		1010g, was constituted in winein your.	A	K/R	90%
	a)	1964		13/13	70 /0
	b)	1962			
	c)	1966			
	d)	1968			
	/				

6.	Pakistan Science Foundation (PSF) was			
create	ed in which year?		K/R	90%
		С		
a)	1976			
b)	1980			
c)	1973			
d)	1950			
7.	What number of organizations and research			
cente	rs involved in carrying out and promoting			
	tific and technological research in Pakistan		K/R	90%
are th		D	K/K	90%
a)	72			
b)	46			
c)	85			
d)	60			
8.	Laser was first obtained in which year?			
a)	1990			
b)	1960	В	K/R	90%
c)	1940			
d)	1930			
9.	Laser was obtained by passing ordinary			
comp	posite light through which of the following?			0001
a)	Ruby crystal	A	U	90%
b)	Ruby diamond	Λ		
c)	Ruby crystalline			
d)	Ruby			
10.	Which of the following are used for			
	osurgery of the retina of the eye			
a)	Ultrasonic waves		IZ/D	000/
b)	Light waves	С	K/R	90%
$\begin{pmatrix} \mathbf{c} \end{pmatrix}$	Laser			
d)	Low energy lasers			
	20 Wellergy labels			

11.	Radio activity was discovered accidentally	A	K/R	90%
	which year?			
	Š			
a)	1896			
b)	1869			
(c)	1966			
d)	1899			
12.	3			
tne	following?	D	K/R	90%
l a)	German scientist			
(a) (b)	Italian scientist			
(c)	Greek scientist			
d)	French scientist			
u)	French scientist			
13.	The ionization capability of a α -ray is one			
	the following.			
	č			
a)	Very large	A	K/R	90%
b)	Very small			
c)	Very weak			
d)	Very strong			
14.	Sound of frequencies higher than one of the			
101.	lowing are called ultrasonic?			
a)	20000 Hz			
(b)	22000 Hz	Α	K/R	90%
(c)	200 Hz			20,0
d)	79000 Hz			
15.	Frequencies below which of the following			
are	called infrasonic?			
a)	10 Hz			
(b)	40 Hz	D	K/R	90%
(c)	50 Hz			
d)	20 Hz			
16.	Which of the following is the most			
	portant organ of human body?			
	portant organ or numan body:			
l a)	Brain			
b)	Heart	В	K/R	90%

	c) Eyes			
	d) Memory			
	•			
	17. Which of the following is the correct full			
	form of C.T Scan?			
	a) Computerized Technology	В	K/R	90%
	b) Computerized Tomography	В	K/K	90 /0
	c) Computerized Tomographic			
	d) Computerized Terminal			
	, 1			
	18. What is the demonstration of physiology of			
	heart called?			
	a) Serology			
	b) Tomography	C	K/R	90%
	c) Angiography			
	d) Chemotherapy			
Space and	Pakistan has established organization for			
Nuclear	space research. Which of the following is the			
Programme	correct name of the organization.			
of Pakistan				
	a) SUPARCO		U	90%
	b) SUPRACO	A		
	c) SUPRRCO			
	d) SUPAARO			
	2. In which year an atomic power reactor was			
	established near Karachi?			
	1071			
	a) 1971	В	K/R	90%
	b) 1972			
	c) 1975			
	d) 1977			
	3. The reactor is capable of producing which			
	of the following of electricity?	D	K/R	90%
	120	D	13/13	70 /0
	a) 120 megawatt			
	b) 180 watt			
	c) 115 megawatt			
1	d) 170 megawatt			
			1	1

4. The energy generated in the core is used to			
produce which of the following systems to generate			
electricity through steam turbines?	C	U	80%
Trab massacra for 1			
a) High pressure fuel			
b) High voltage current			
c) High pressure steam			
d) High pressure gas			
5. Scientists belonging to which country have			
successfully fabricated fuel road from uranium	С	K/R	90%
mined?	C	IX/IX	<i>90</i> /0
a) Chinese			
b) American			
c) Pakistani			
d) Indian			
6. Long time preservation of food and fruits			
\mathcal{E} 1			
by irradiating them are being introduced through			
the nuclear center of food and agriculture near one		U	80%
of the following cities.	В		
a) Karachi			
b) Peshawar			
c) Lahore			
d) Baluchistan			
7. Radioactive particles are carried away by			
which of the following?			
a) Gas			
b) Steam	C	K/R	90%
c) Wind			
d) Fire			
8. One of the following particles are harmful			
to all type of living beings	_		
a) Ultracopia	В	K/R	90%
a) Ultrasonic			
b) Radioactive			
c) Laser			
d) Atomic			

9. Now a days big ships and submarines are	D	U	90%
operating through one of the following.			
a) Gas			
b) Steam energy			
c) Hydro machines			
d) Nuclear energy			
10. Which of the following are used in			
10. Which of the following are used in detecting the diseased part of body	В	K/R	90%
detecting the diseased part of body			
a) Radioactive rays			
b) Radioisotopes			
c) Radiographs			
d) Radiology			
11. Cells of body need one of the following for			
their activity.			
		TT	90%
a) Iodine	A	U	90%
b) Protein			
c) Sweet			
d) Vitamin C			
12. SUPARCO stands for one of the following.			
a) Space and Upper Atmosphere Research			
Corporation			
b) Space and Upper Atmospheric Research			
Corporation Corporation	A	K/R	90%
c) Space and Upper Pakistan Atmosphere		13/14	7070
Research corporation			
d) Space and Upper Atom Research			
Corporation			
-			
13. SUPARCO has its research and testing			
facilities at which of the following places?			
a) Sonmiani			
b) Shahdadpur	A	K/R	90%
c) Sui			
d) Sahiwal			

14. Submarine operated by an energy need not			
come to the surface for getting oil. What is the	С	K/R	90%
energy called?			
a) Hydro energy			
b) Steam energy			
c) Nuclear energy			
d) Atomic power			
15. Iodine is supplied to body by which of the	D	K/R	90%
following?			
6			
a) Thyroid			
b) Throttling			
c) Thyroid muscle			
d) Thyroid glands			
16. Iodine starts accumulating in which of the	В	K/R	90%
following?	В	K/K	90 70
a) Thyroid			
b) Thyroid glands			
c) Thyroid cells			
d) Thyroid muscle			
211,1014 11145010			
17. The presence and the rate of accumulation	С	K/R	90%
of iodine is checked by placing the which of the			
following near the neck of patient			
a) Oxygen cylinder			
b) Odometer			
c) Geiger counter			
d) Geiger mask			
18. Fast accumulation of iodine means which			600
of the following?	A	U	90%
of the following.			
a) An active thyroid			
b) An active glands			
c) A slower glans			
d) A strong thyroid			

19.	Slow accumulation of iodine indicates	D	U	90%
which	of the following?			
(a)	An active Glands			
(b)	A less glans			
(c)	A weak thyroid			
d)	A less active thyroid			
20.	Human beings inhale radioactive particles	С	K/R	90%
from	which of the following?		11/11	3070
a)	Light			
(b)	Space			
(c)	Air			
d)	Plants			
21.	National Science Council of Pakistan was			
set up	in	D	K/R	90%
			IX/IX	70 /0
a)	1962			
b)	1963			
(c)	1972			
d)	1973			