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21 Complete

Name:

Test Type

Chapter



MCQs, Short & Long question



Roll No.

Class

Unit

(For information O3335126161 parhozone@gmail.com)

12

21

Subject

Date

Time

Physics

Q. No	. 1 Tick the best opti	on			20				
1.	Electrons are:								
	(a) Hadrons	(b) Leptons	(c) Quarks	(d) Baryons					
2.	The building blocks of proton and neutrons are called:								
	(a) Quarks	(b) Electrons	(c) Protons	(d) Ions					
3.	Subatomic particles are	e divided into:							
	(a) Six groups	(b) Five groups	(c) Four groups	(d) Three groups					
4.	Two down quarks and	one up quark make:	ā ā						
	(a) Photon	(b) Proton	(d) Neutrons						
5.	One joule of energy ab	ody is:							
	(a) Rem	(b) Roentgens	Roentgens (c) Grey						
6.	78 - 51		ter than energy output pe	(d) Becquerel r nucleon in fission:					
	(a) 25 times	(b) 5 to 7 times	(c) 200 times	(d) 8 to 10 times					
7.	The range of weak nuclear force is of the order of:								
	(a) 10 ⁻⁹ m	(b) 10 ⁻¹⁰ m	(c) 10 ⁻¹⁷ m	(d) 10 ⁻¹⁵ m					
8.	Mass of meson is:	(0)		(-)					
2000	(a) Greater than proton		(b) Less than proton						
	(c) Equal to proton		(d) Equal to neutron						
9.	Circulation blood can b								
۶.	(a) Cobalt-60	(b) Phosphorous-32	(c) Sodium -24	(d) Iodine -131					
10.	1 Curie =	(b) Thosphorous-32	(c) Soutum -24	(d) Iodilic -151					
10.	(a) 3.7×10^{10} dis/sec	(b) 7.3 x 10 ⁻¹⁰ dis/sec	(c) 3.7 x 10 ⁵ dis/sec	(d) 7.3 x 10 ¹⁰ dis/sec					
11.	In Fusion reaction, the energy released per nucleon (in P-P chain reaction) is about:								
11.	(a) 2 MeV	(b) 5MeV	(c) 15MeV	(d) 6.4MeV					
12.				(u) 0.4Me v					
12.	The temperature of the	(4) 20:11: 90							
10	(a) 10 million °C	(b) 15 million °C	(c) 20 million °C	(d) 30 million °C					
13.		Typical source of β -particle is:							
202	(a) Radon-222	(b) Cobalt-60	(c) Uranium-238	(d) Strontium-94					
14.	A	Access to the second se	per year on the average i						
1100004	(a) 1 mSv	(b) 2 mSv	(c) 3 mSv	(d) 4 mSv					
15.		ve materials left after five							
	(a) 6%	(b) 5%	(c) 4%	(d) 3%					
16.	The reciprocal of the d								
	(a) Frequency	(b) Half-life	(c) Mean-life	(d) Radioactive constant	ıt				
17.	Particle not emitted by radioactive substance are:								
	(a) Gamma rays	(b) Electrons	(c) ${}_{2}^{4}He$	(d) Protons					
18.	Subatomic particles are divided into:								
	(a) Photons	(b) Leptons	(c) Hadrons	(d) All of these					
19.	In nuclear reactor, urar	nium is enriched up-to:							
	(a) 1& to 2%	(b) 1 to 3%	(c) 2 to 3%	(d) 2 to 4%					
20.	Energy given out per nucleon in p-p reaction is:								
	(a) 5.2 Mev	(b) 6 Mev	(c) 6.4 Mev	(d) 7.7 Mev					

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Q. No. 2 Write the short answer of these following question

 $12 \times 2 = 24$

- 1) Define nuclear activity and its unit.
- 2) What are leptons? Names at least two leptons.
- 3) Explain the p-p reaction in the sun with the help of equations.
- 4) What do we mean that the term critical mass?
- 5) A particle which produces more ionization is less penetrating. Why?
- 6) Why are Heavy Nucleus unstable?
- 7) What factors make a fusion reaction difficult to achieve?
- 8) What is Radiography? What is its Importance?
- 9) How can radioactivity help in the treatment of Cancer?
- 10) Write down the names of different quarks.
- 11) How can we justify emission of electron from inside of a nucleus during beta decay?
- 12) Discuss the advantages and disadvantages of nuclear power compared to the use of fossil fuel generated power?

Q. No. 3 Long question

5 + 3 = 08

- 1) What is a nuclear reactor? Discuss the function of its main parts.
- 2) How much energy is absorbed by a man of mass 80 kg who receives a lethal whole body equivalent dose of 400 rem in the form of low energy neutrons for which RBE factor is 10?