

AZAD MAHAVIDYALAYA, AUSA

DEPARTMENT OF PHYSICS

Learning Level Test

B.Sc. T. Y. (Physics) -2021-22

Total Marks-20



Name of the Student:-		Roll No.:-		Marks Obtained			
N.B. – 1. Attempt all the questions 2. Each question carries equal marks 3. Tick mark (✓) the correct alternative.							
Q.1	The logical gates are categorized into _____						
A	One	B	Two	C	Three	D	Four
Q.2	The universal gate is						
A	NAND gate	B	OR gate	C	AND gate	D	None of the above
Q.3	A single transistor can be used to build gates .						
A	OR Gate	B	AND Gate	C	NOT Gate	D	NAND Gate
Q.4	The selectivity of most receivers is determined largely by						
A	sensitivity	B	antenna direction	C	characteristics of IF section	D	all of the above
Q.5	The output of a diode detector contains						
A	D.C. voltage	B	modulating signal	C	RF ripple	D	all of the above
Q.6	In an AM wave useful power is carrier by						
A	Carrier	B	Sidebands	C	Both sidebands and carrier	D	None of the above
Q.7	Over modulation results in						
A	Weakening of the signal	B	Excessive carrier power	C	Distortion	D	None of the above
Q.8	Which of the following has a HCP crystal structure?						
A	W	B	Mo	C	Cr	D	Zr
Q.9	Amorphous solids have _____ structure.						
A	Irregular	B	Regular	C	Linear	D	Dendritic
Q.10	Bravais lattice consists of _____ space lattices.						
A	Eleven	B	Twelve	C	Thirteen	D	Fourteen

Principal
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N.B. – 1. Attempt all the questions 2. Each question carries equal marks 3. Tick mark (✓) the correct alternative.				
Q.1	Faraday's laws are consequence of the conservation of			
A	charge	B energy	C magnetic field	D both (b) and (c)
Q.2	The Maxwell first equation is known as _____ law.			
A	coulombs	B newtons	C gauss	D keplers
Q.3	The net force between two moving charges is _____			
A	Zero	B One	C infinite	D C
Q.4	Which of the following relation will hold good?			
A	$D = \mu H$	B $B = \mu H$	C $E = \epsilon D$	D $B = \epsilon E$
Q.5	Find the force experienced by an electromagnetic wave in a conductor?			
A	Electrostatic force	B Magneto static force	C Electro motive force	D Lorentz force
Q.6	SI unit of the power of a lens is			
A	Diopter	B Horse power	C Hertz	D Watt
Q.7	In any collision, the parameter which is conserved is			
A	kinetic energy	B angular momentum	C linear momentum	D potential energy
Q.8	Young's modulus is the property of			
A	Gas only	B Liquid only	C Plasma only	D Solid only
Q.9	Product of Force and Velocity is called:			
A	Work	B Power	C Energy	D Momentum
Q.10	Which one of the following has the highest value of specific heat ?			
A	Alcohol	B Methane	C Kerosene	D Water

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B.Sc. F. Y. (Physics) -2020-21
Total Marks-20



Name of the Student:-	Roll No.:-	Marks Obtained
N.B. – 1. Attempt all the questions 2. Each question carries equal marks 3. Tick mark (✓) the correct alternative.		
Q.1	The magnetic quantum number specifies	
A	Orientation of orbitals	B Nuclear Stability
C	Size of orbitals	D Shape of orbitals
Q.2	Loud sound can travel a larger distance, due to	
A	Higher amplitude	B High frequency
C	Higher energy	D High speed
Q.3	What is the unit of loudness?	
A	Bel	B Phon
C	Decibel	D All of the above
Q.4	When the diode is forward biased, it is equivalent to	
A	An off switch	B An On switch
C	A high resistance	D None of the above
Q.5	A crystal diode is used as--	
A	amplifier	B oscillator
C	regulator	D rectifier
Q.6	Which of the following is most likely not a case of uniform circular motion?	
A	Motion of the earth around the sun	B Motion of a toy train on a circular track
C	Motion of a racing car on a circular track	D Motion of hours' hand on the dial of a clock
Q.7	The molecular formula of potassium nitrate is _____.	
A	KNO_3	B KNO
C	KNO_2	D KON
Q.8	The inertia of a moving object depends on:	
A	Mass of the object	B Momentum of the object
C	Speed of the object	D Shape of the object
Q.9	Which one of the following does not affect the elasticity of a substance _____	
A	Hammering	B Adding impurity in the substance
C	Changing the dimensions	D Change of temperature
Q.10	Which one of the following Substances is not plastic?	
A	Butter	B Iron
C	Plasticine	D Wax


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AZAD MAHAVIDYALAYA, AUSA
DEPARTMENT OF PHYSICS
Report on Bridge Course in Physics

Date- 10/07/2021



A bridge course for newly admitted students is conducted every year before the commencement of the first semester classes. The main objective of the course is to bridge the gap between subjects studied at Pre-university level and subjects they would be studying in B.Sc. degree program. The syllabus for the course is framed in such a way that, the students to have a smooth transition to the Physics course. This year bridge course was conducted at the beginning of the semester from 27/06/2021 to 05/07/2021. The students are trained in Physics apart from other co-curricular activities.


Objectives:

- To inculcate interest in Physics among the newly inducted students.
- To remove the fear of Physics among the students.
- To channelize the talents of the students in a constructive way.
- To give direct exposure to the students in various areas of Physics
- Active learning with the help of other students.

The bridge course in Physics was started on 27/06/2021. Total 15 students were participated in the course. The said course was organized effectively under the guidance of Dr. M. A. Barote and Prof. B. D. Ingale. In the very first period, the students were informed about the content of Bridge course in that they will be taught. Students learnt various aspects of Physics as well as revised few concepts that they studied earlier.

Outcome of the course

- It has provided students the confidence to study B.Sc. Physics program.
- Students are familiarized with the Azad Mahavidyalaya ambience.
- It has helped students for enhancing subject knowledge and class experiences.


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DEPARTMENT OF PHYSICS

Report on Remedial Classes

Date:- 09/03/2021



Remedial classes are conducted for slow learner by the Department of Physics. In the regular classes, student fail to understand the subject, such students are admitted to a remedial classes. It focuses on basic concepts, develop study habits and to develop confidence in the students for respective subject. Remedial classes helps to close the gap between what a student knows and what he is expected to know.

In our college, students are coming from different family backgrounds with different living standards. There are some students with high learning ability who can grasp quite fast and learn better but there are other students who needs frequent guidance and support. To make pace with the fast learner, college has conducted remedial classes on regular basis for slow learner.


In addition, remedial teaching carried out in order to help students improve in part or whole learning difficulties faced by the students so as to achieve the expected results in accordance with its capabilities.

Objectives

- To boost up the confidence of slow learner students and to realize their weakness.
- To enhance the skills in respect of learning process.
- To remove the scare about study.
- To make the equal level of slow learner and advance learner.
- To motivate for an innovative and creative mindset.
- To organize the workshop/seminar/guidance program for slow learner.
- Help to understand paper pattern, question pattern, etc.

Outcome:

Through this effort of the faculty, the slow learners are highly benefitted and are able to understand their lessons in a better way. Remedial teaching is a kind of follow up and it is done after an initial phase of teaching and evaluation. Remedial teaching is being done for the sake of slow learners with the aim of improving their understanding ability through easy and simple language exercises. Study materials are specially prepared for them for easier understanding. There was marked improvement in the level of achievement after the rigorous remedial teaching at regular intervals.


Principal
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