AMU - 2016

A Detailed Analysis by Resonance

On 10th April 2016, AMU Medical Exam – 2016 was conducted by Aligarh Muslim University for admission of candidates in various medical under graduate courses such as BDS, MBBS, and Nursing in the University. This exam is conducted in 2 rounds and this was the first round also known as First Tier. The second tier will be conducted on 29 May, 2016.

DETAILS OF AMU - 2016

AMU Medical 2016 is a national level entrance exam conducted for admission to around 180 MBBS and BDS seats. Among the 180, 145 are MBBS seats in Jawaharlal Nehru Medical College and 35 are BDS seats in Dr. Ziauddin Ahmad Dental College. The admission to undergraduate medical and dental programmes will be strictly done on the basis of candidate's marks and rank scored in AMU Medical 2016 Exam.

AMU – 2016 was conducted in one paper consisting of 50 questions each from Physics and Chemistry, and 100 questions from Biology which consists of Zoology and Botany subjects. The exam was conducted on 10th April from 10:00 am to 01:00 pm.

Tier-2 will be held only in AMU Campus at Aligarh. In AMU MBBS BDS 2016 Tier-2, only 30% of the candidates will be allowed to appear in order of merit who appear in Tier-1 Test, in each category of general and internal candidates, subject to a maximum of 15000 candidates, which is the capacity of the University to accommodate. In case an exceedingly large number of candidates appear, the percentage may equitably be reduced, to keep the ceiling to a maximum of 15000 candidates

Given below is the subject wise detailed analysis of AMU-2016 question paper.

OVERALL MARKS DISTRIBUTION

The paper had 200 questions each worth 1 mark. All questions were objective type with single correct option. If we talk about subject wise, then there were 50 questions from Physics and Chemistry, and 100 questions were from Biology (Zoology and Botany sections of Biology).

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	Class 11		Clas	s 12	Total		
SUBJECT	No of	Total	No of	Total	No of	Total	
	Questions	Marks	Questions	Marks	Questions	Marks	
Physics	25	25	25	25	50	50	
Chemistry	15	15	35	35	35	35	
Zoology	39	39	17	17	56	56	
Botany	33	33	11	11	44	44	
Grand Total	112	112	88	88	200	200	

OVERALL DIFFICULTY LEVEL ANALYSIS

In this analysis we have rated every question on a scale of 1 to 3. The ratings are done by expert faculty of Resonance. The individual ratings are then averaged to calculate overall difficulty level.

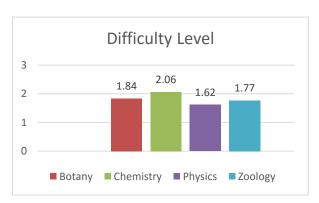
1: Easy

• 2: Moderate

• 3: Difficult

Subject	Difficulty Level
Physics	1.62
Chemistry	2.06
Zoology	1.77
Botany	1.84
Overall Average	1.82

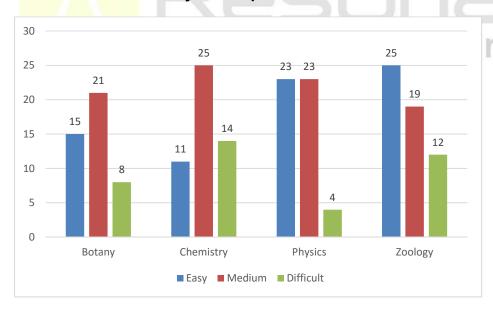
Difficulty Level Analysis: No of Questions



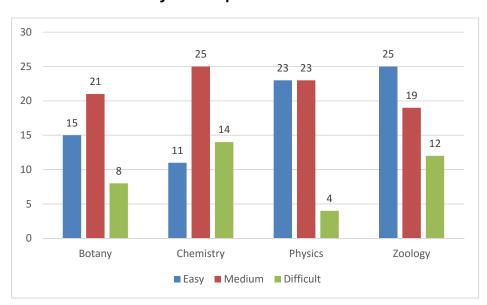
	Easy Level		Mediur	n Level	Difficult Level	
Subject	No of Questions	Total Marks	No of Questions	Total Marks	No of Questions	Total Marks
Physics	23	23	23	23	04	04
Chemistry	11	11	25	25	14	14
Zoology	25	25	19	19	12	12
Botany	15	15	21	21	08	08
Grand Total	74	74	88	88	38	38

Resonance Experts feel that all Chemistry was at tougher side as compared to Biology and Physics was easiest among all. Around 74 marks can be considered easy overall, 88 marks are moderately difficult and 38 marks are considered difficult by Resonance Team.

Question Wise Difficulty Breakup



Marks Wise Difficulty Breakup



PHYSICS ANALYSIS

	3.0			
UNIT & TOPIC NAME	NO OF QUESTION	TOTAL MARKS	% WEIGHTAGE	
Electrodynamics	icati	ng	or po	etter tomorro
Alternating Current	1	1	2.00%	
Capacitance	4	4	8.00%	
Current Electricity	3	3	6.00%	
Electro Magnetic Field	3	3	6.00%	
Electro Magnetic Induction	1	1	2.00%	
Electrostatics	1	1	2.00%	
Electrodynamics Total	13	13	26.00%	
Heat & Thermodynamics				
KTG & Thermodynamics	5	5	10.00%	
Heat & Thermodynamics				
Total	5	5	10.00%	
Mechanics				
Centre of Mass	1	1	2.00%	
Circular Motion	1	1	2.00%	
Error in Measurement	1	1	2.00%	
Fluid Mechanics &				
Properties of Matter	1	1	2.00%	
Friction	1	1	2.00%	



	1	1	•	
Gravitation	2	2	4.00%	
Mathematical Tools	1	1	2.00%	
Projectile Motion	1	1	2.00%	
Rectilinear Motion &				
Vectors	3	3	6.00%	
Rigid Body Dynamics	1	1	2.00%	
Unit & Dimension	1	1	2.00%	
Work, Power & Energy	3	3	6.00%	
Mechanics Total	17	17	34.00%	
Modern Physics				
Electromagnetic waves &				
communication	2	2	4.00%	
Modern Physics	5	5	10.00%	
Semiconductors	2	2	4.00%	
Modern Physics Total	9	9	18.00%	
Optics				
Geometrical Optics &				
Physical Optics	2	2	4.00%	
Wave Optics	1	1	2.00%	
Optics Total	3	3	6.00%	
SHM & Waves				
SHM	1	1	2.00%	
Sound Waves	C 2 2	n (12)	4.00%	etter tomori
SHM & Waves Total	3	3	6.00%	sttor torriorr
Physics Total	50	50	100.00%	
Grand Total	50	50	100.00%	



CHEMISTRY ANALYSIS

	NO OF	TOTAL	%
UNIT & TOPIC NAME	QUESTION	MARKS	WEIGHTAGE
Inorganic Chemistry-I			
chemical bonding	5	5	10.00%
p-block	2	2	4.00%
Periodic Table &			4.0070
Periodicity in Properties	1	1	2.00%
Inorganic Chemistry-I			2.0070
Total	8	8	16.00%
Inorganic Chemistry-II			20.0070
Coordination			
Compounds	2	2	4.00%
d-block & f-block			4.0070
Elements	3	3	6.00%
metallurgy	1	1	2.00%
Inorganic Chemistry-II	1	1	2.00%
Total	6	6	12.00%
Organic Chemistry-I	0		12.00/0
General Organic		 	
Chemistry- II	3	3	6.00%
General Organic	3	3	0.00%
Chemistry-I	1	1	2.00%
Organic Chemistry-I Total	UC2	in C4	8.00%
	uca	11119	8.00%
Organic Chemistry-II	 		
Alkyl Hallide, Alcohol &	,	,	4.000/
Ether (Reaction Mechanism)	2	2	4.00%
biomolecules	5	5	10.00%
carbonyl compounds	2	2	4.00%
Environmental	_		
chemistry	1	1	2.00%
Hydrocarbon (Alkane,			2.000/
Alkene & Alkyne)	1	1	2.00%
Nitrogen Containing	_	,	C 000/
Organic Compounds	3	3	6.00%
Organic Chemistry-II Total	14	14	28.00%
Physical Chemistry-I			
Atomic Structure &	_		
Nuclear Chemistry	1	1	2.00%
Chemical Equilibrium	1	1	2.00%
ionic equilibrium	2	2	4.00%
mole concept	1	1	2.00%
Redox Reactions	1	1	2.00%



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Physical Chemistry-I Total	6	6	12.00%
Physical Chemistry-II			
Chemical Kinetics	5	5	10.00%
Electrochemistry	1	1	2.00%
Solid State	1	1	2.00%
Solution & Colligative			
Properties	2	2	4.00%
surface chemistry	3	3	6.00%
Physical Chemistry-II			
Total	12	12	24.00%
Chemistry Total	50	50	100.00%
Grand Total	50	50	100.00%

BIOLOGY ANALYSIS

Zoology Analysis

	A 10.0		
UNIT & TOPIC NAME	NO OF	TOTAL	%
	QUESTION	MARKS	WEIGHTAGE
Animal Kingdom-1: Non-	ıcati	na	for b
<u>chordata</u>		3	
Coelenterata	1	1	1.79%
Platyhelminthes &			
Aschelminthes	4	4	7.14%
Porifera	2	2	3.57%
Animal Kingdom-1: Non-			
chordata Total	7	7	12.50%
Animal Kingdom-2: Chordata			
Mammalia	1	1	1.79%
Pisces	1	1	1.79%
Animal Kingdom-2: Chordata			
Total	2	2	3.57%
Biology in Human welfare			
Human health and Disease			
Diseases caused by			
Helminths & Fungi	2	2	3.57%
Diseases caused by			
Protozoa	2	2	3.57%
Diseases caused by Virus	1	1	1.79%
Drug Addiction	1	1	1.79%



Amu-2016 Analysis

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Introduction: Biology in				
Human welfare Human health				
and Disease	1	1	1.79%	
Biology in Human welfare				
Human health and Disease				
Total	7	7	12.50%	
Biology in Human welfare				
Microbes in human welfare				
Microbes in Production of				
Biogas	1	1	1.79%	
Microbes Used in				
Household Production	1	1	1.79%	
Microoganisms Used in				
Industrial Production	2	2	3.57%	
Biology in Human welfare				
Microbes in human welfare				
Total	4	4	7.14%	
Biomolecules				
Carbohydrates	1	1	1.79%	
Enzymes	2	2	3.57%	
Miscellaneous:				
Biomolecules	1	1	1.79%	
Nucleic Acids	2	2	3.57%	
Proteins	3	3	5.36%	
Protoplasm	Icau		1.79%	etter tomorrow
Biomolecules Total	10	10	17.86%	
Human Physiology: Body				
Fluids and Circulation				
Miscellaneous: Human				
Physiology: Body Fluids and				
Circulation	1	1	1.79%	
Human Physiology: Body				
Fluids and Circulation Total	1	1	1.79%	
Human Physiology:				
Breathing and Exchange of				
Gases				
Exchange and Transport of				
Gases	3	3	5.36%	
Human Physiology:				
Breathing and Exchange of				
Gases Total	3	3	5.36%	
Human Physiology: Chemical				
Coordination and Integration				
Hypothalamus & Pitutory				
Gland	1	1	1.79%	



	 		l	ı
Pancreas	1	1	1.79%	
Thyroid Gland	1	1	1.79%	
Human Physiology: Chemical				
Coordination and Integration	_			
Total	3	3	5.36%	
Human Physiology: Digestion				
and Absorption	_			
Digestive Glands	1	1	1.79%	
Digestive System	1	1	1.79%	
Gastro Intestinal			2.570/	
hormones/Digestive enzymes	2	2	3.57%	
Human Physiology: Digestion		4	7.4.40/	
and Absorption Total	4	4	7.14%	
Human Physiology: Locomotion and Movements				
	4		4.700/	
Axial Skeleton	1	1	1.79%	
Human Physiology: Locomotion and Movements				
Total	1	1	1.79%	
Human Physiology: Neural	1	т	1.79/0	
Control and Coordination				
Brain & Spinal Cord	2	2	3.57%	
CSF, Brain Covering, Brain	2		3.5770	
Cavity	1	1	1.79%	
Human Physiology: Neural	cati	na	tor b	etter tomorrov
Control and Coordination Total	3	3	5.36%	
Human Reproduction and				
Reproductive Health				
Gametogenesis	1	1	1.79%	
Infertility and Assisted				
Reproductive Techniques	1	1	1.79%	
Male Reproductive System	1	1	1.79%	
Placenta and Parturition	1	1	1.79%	
Human Reproduction and		<u></u>		
Reproductive Health Total	4	4	7.14%	
Origin and Evolution				
Evidences of Evolution	1	1	1.79%	
Theories of Evolution	1	1	1.79%	
Origin and Evolution Total	2	2	3.57%	
Plant Diversity-Biological	_			
Classification				
Carbohydrates	1	1	1.79%	
Plant Diversity-Biological				
Classification Total	1	1	1.79%	



Amu-2016 Analysis

Structural Organisation in Animal			
Connective Tissue	1	1	1.79%
Earthworm	1	1	1.79%
Frog	2	2	3.57%
Structural Organisation in			
Animal Total	4	4	7.14%
Zoology Total	56	56	100.00%
Grand Total	56	56	100.00%

BOTANY ANALYSIS

UNIT & TOPIC NAME	NO OF	TOTAL	%	
ONT & TOTIC NAME	QUESTION	MARKS	WEIGHTAGE	
Application Biology-Plant Breeding				
Application Biology-Plant				
Breeding	1	1	2.27%	
Application Biology-Plant Breeding				
Total	1	1	2.27%	
Cell Biology-Cell: The basic unit of				
Life				71 11 11
Cell membrane	1	1	2.27%	
Vacuoles	atind	for	2.27%	r tomorrow
Cell Biology-Cell: The basic unit of	atimy	101	Derre	LOIIIOITOW
Life Total	2	2	4.55%	
Ecology- Biodiversity and				
Conservation				
Introduction, Level of				
biodiversity, Pattern of Biodiversity,				
Loss of biodiversity, Conservation of				
biodiversity	1	1	2.27%	
Ecology- Biodiversity and				
Conservation Total	1	1	2.27%	
Ecology- Ecosystem				
Ecological succession,				
BiogeoChemical & Sedimentary				
Cycles, Ecosystem services, Biomes	1	1	2.27%	
Energy flow, Food chain, food				
web, Ecological pyramids	1	1	2.27%	
Ecology- Ecosystem Total	2	2	4.55%	
Ecology- Environmental Issues				
Types of pollutants, Types of				
pollution – Air pollution, acid rain,	2	2	4.55%	



ozone deplation, water pollution, soil		l		
pollution, Noise pollution, Redioactive				
waste, Global warming - Green house				
effect, International efforts to reduce				
pollution.				
Ecology- Environmental Issues				
Total	2	2	4.55%	
Ecology- Organisms and population				
Introduction, Abiotic factors,				
Responses to Abiotic factors,				
Ecological adaptations	2	2	4.55%	
Population & Population				
interactions, Biotic community	1	1	2.27%	
Ecology- Organisms and population				
Total	3	3	6.82%	
Genetics- Molecular basis of				
inheritance				
Nucleic Acid (DNA, RNA, The				
search for genetic material and				
chargaffs rule)	1	1	2.27%	
Regulation of gene expression,				
HGP and DNA fingerprinting	2	2	4.55%	
Genetics- Molecular basis of				
inheritance Total	3	3	6.82%	
Genetics- Principals of inheritance	ating	for	hette	r tomorrow
and variations	atimy	101	DOLLO	1 (011101104)
Linkage, Crossing over, pedigree				
analysis, Genetic disorders,	_		/	
cytoplasmic inheritance	1	1	2.27%	
Multiple allele, pleotropic gene,				
gene interaction, polygenic	4	1	2.270/	
inheritance, Sex determination	1	1	2.27%	
Genetics- Principals of inheritance and variations Total	2	2	4.55%	
Plant Diversity-Biological	2	2	4.55%	-
Classification				
Introduction: Plant Diversity-				
Biological Classification	1	1	2.27%	
	2	2		1
Kingdom - Monera			4.55%	1
Kingdom - Protista	3	3	6.82%	-
Kingdom-Fungi	4	4	9.09%	1
Virus	1	1	2.27%	
Plant Diversity-Biological				
Classification Total	11	11	25.00%	
Plant Diversity-Kingdom Plantae				

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	1	1	1	ı
Kingdom Plantae-Algae	1	1	2.27%	
Plant Diversity-Kingdom Plantae				
Total	1	1	2.27%	
Plant Morphology				
Flower	1	1	2.27%	
Plant Morphology Total	1	1	2.27%	
Plant Physiology I				
Kingdom-Fungi	1	1	2.27%	
Plant Physiology I-Mineral				
Nutrition	8	8	18.18%	
Plant Physiology I-Transport in				
Plants	1	1	2.27%	
Plant Physiology I Total	10	10	22.73%	
Plant Physiology II- Photosynthesis				
Introduction (Early experiments),				
site of Photosynthesis and				
Photosynthetic Pigments	1	1	2.27%	
Light reaction and ETS	1	1	2.27%	
Plant Physiology II- Photosynthesis				
Total	2	2	4.55%	
Plant Physiology II- Plant growth				
and Development				
Discovering of PGR, Auxin,		_		
Gibberellins and Cytokinins	ating	tor.	2.27%	r tomorrow
Ethylene and Abscissic Acid	1	1	2.27%	
Photoperiodism and				
Vernalisation	1	1	2.27%	
Plant Physiology II- Plant growth	_	_		
and Development Total	3	3	6.82%	
Botany Total	44	44	100.00%	
Grand Total	44	44	100.00%	

OVERALL REVIEW: