Kurdistan Regional Government Iraq

Ministry of Higher Education & Scientific Research

Salahaddin University –Erbil College of Basic Education Department: General Science



Module : Astronomy Stage: Third Round: first trail Time: 3 hours

Final Exams 2018-2019

Q1 A- Explain Lunar Eclipse B- Draw average distribution of inco C- What are byproducts in the first st interaction equation.	_	* -	_		
Q2: A- The distance between two stars	$1.42 \times 10^{14} \ Km$		(4+3+3+6+4	4) Marks	
Calculate this distance by	1-Light year	2 -	parsec.		
B- Calculate atmosphere pressure at	height 5000 km				
C-Calculate earth rotation on its axi	s at latitude 75 deg	gree south.			
D- Life time of the sun is 100 times	greater than the lif	e time of the o	ne star. Calculate th	e mass	
and luminosity of the star.					
E-Define the main sequence stars an	d draw the (H-R	diagram) or (N	Mass-Luminosity rel	ation).	
Q 3 AComplete the following statement.			(10+5) Marks		
1- In the ozone layer temperature -	with altitu	ıde due to			
 2- In first quarter of moon phase th 3- At winter the distance between t 4- Third Kepler's Laws is represen 5- Luminosity is represented B- Compare between Terrestrial and 	he sun and earth is ted	s the		·	
Q4 Choose the correct answer.			10 Marks		
1- The space, all the matter and energy	are called (A- star	B-plane	et C-Universe).		
2- An object which orbits a planet is (A	A- galaxy	B- moon	C- earth).		
3- The ions layer disappears at midnigh	nt is (A-D	В-Е	C-F) layer.		
4- The layer of the sun visible during a	total eclipse is (A	- Chromospher	re B- Photosphere	C- Corona).	
5-The coldest layer of earth atmosphere	e is (A- Stratosphe	re B- meso	osphere C- Trop	osphere).	
Best wishes					

Instructor: Dr Abbas H Rostam

Signature

Kurdistan Regional Government Iraq

Ministry of Higher Education & Scientific Research

C-Super giants stars).

Salahaddin University –Erbil College of Basic Education Department: General Science



Module : Astronomy

Stage : Third

Round: second trail Time: 3 hours

Final Exams 2018-2019

Q1: A- Explain Solar Eclipse B- Explain the models of the	ne solar system.		(6+4) Marks
Q2: A- Compare moon phases t	iming in first quarte	er and last quarter.	(4+6) Marks
B- Define the third Kepler'	s Law of Planetary	Motion and prove th	is law.
Q3:A- If the power energy emi	tted or (power per u	nit area emitted) fro	m one. (5+5) Marks
star is $35437500 \frac{watt}{m^2}$. Ca	lculate the temperat	ture of the star.	
B- Calculate the distance of	f Saturn from the su	n and the period tim	e of the Saturn
around the sun.			
Q 4: AComplete the followin	g statement.		10 Marks
1the time requi Earth; this takes of 2- Thermonuclear fusion ca 3 is the time of phases from new moon to 4- Star with mass four time 5- Planets are categorized a	days. In take place only at required for the Moreonew moon; this take greater than the market.	t and on to pass through kes days. ass of the sun, luming	 its complete series of
Q5: Choose the correct answer 1- The closed distance moon f C-Apogee).		ed (A- Aphelion	10 Marks B-perigee
2-The layer of ions that ability	to refract low frequ	iency signals. (A- F	2- E 3- D).
3- One of these variables has r	nore effect on the lu	ıminosity of the star	(A- Temperature
B- mass	C-radius).		
4-One light year is equal (A-3	3.26 pc	B-206265 pc	C- 0.306748 pc)
5- Stars below the main sequ	uence are called (A-	White dwarfs B-	Giants stars

Q6: A- At 70 South latitude line, in 25 May the day longer or the night.

B- Draw the layers of the sun.

(5+5) Marks

Best wishes

Instructor: Dr Abbas H Rostam

Signature

4/9/2019

Kurdistan Regional Government Iraq Ministry of Higher Education & Scientific Research Salahaddin University –Erbil College of Basic Education Department: General Science



Module : Astronomy Stage : Third

Round: second trail Time: 3 hours

Final Exams 2018-2019

Q1: A- Explain Solar Eclipse B- Explain the models of the solar system.	(6+4) Marks				
Q2: A- Compare moon phases timing in first quarter and last quarter.	(4+6) Marks				
B- Define the third Kepler's Law of Planetary Motion and prove this law.					
Q3:A- If the power energy emitted or (power per unit area emitted) from one.	(5+5) Marks				
star is $35437500 \frac{watt}{m^2}$. Calculate the temperature of the star.					
B- Calculate the distance of Saturn from the sun and the period time of the Saturn around the sun.					
Q 4: AComplete the following statement.	10 Marks				
 the time required for the Moon to complete a 360° revolution arour days. Thermonuclear fusion can take place only at and is the time required for the Moon to pass through its complete new moon to new moon; this takes days. Star with mass four time greater than the mass of the sun, luminosity of the states are categorized according to and 	series of phases from				
Q5: Choose the correct answer. 1- The closed distance moon from the earth is called (A- Aphelion B-perig	10 Marks ee C-Apogee).				
2-The layer of ions that ability to refract low frequency signals. (A-F 2-E 3	3- D).				
3- One of these variables has more effect on the luminosity of the star (A- Tempera	ture				
B- mass C-radius).					
4-One light year is equal (A-3.26 pc B-206265 pc C- 0.306748	pc)				
5- Stars below the main sequence are called (A-White dwarfs B- Giants stars					
C-Super giants stars).					
Q6: A- At 70 South latitude line, in 25 May the day longer or the night.	(5+5) Marks				
B- Draw the layers of the sun. Best wishes Instructor: Dr Abbas H Rostam					
Signature 4/9/2019					