

FACULTY HIGHER SECONDARY SCHOOL SAMPLE PAPER FOR SECOND PERIODIC TEST- 2019-20 CLASS IX

SUBJECT- SCIENCE

TOTAL MARKS: 80 TIME: 3HRS

Choose the most appropria	te answer :-	(10x1=10)
(i) The value of 'g' is maximur	n :	
(a) at the poles	(b) at the equator	
(c) at the centre of the ea	rth (d) in space	
(ii) A mixture of sodium chloride	and ammonium chloride can	be separated by :
(a) sublimation	(b) filtration	
(c)separating funnel	(d) evaporation	
(iii) The correct electronic config	uration of sulphur atom is :	
(a) 2,8,7	(b) 2,8,6	
(c) 2,8,8	(d) 2,8,4	
(iv) An example of homogeneou	us mixture is :	
(a) blood	(b) soil	
(c) milk	(d) steel	
(v) The area under of the speed-	time graph gives :	
(a) the distance travelled	(b) acceleration	
(c) velocity	(d) displacement	
(vi) The SI unit for rate of chang	ge of momentum:	
(a) kg m/s	(b) kg m/s ²	
(c) m/s2 (d) N	I/m2	
(vii) Identify a member of Porifera		
(a) Spongilla. (b) Euglena. (c) Penicilli	um. (d) Hydra	
(viii) Jaundice is a disease of		
(a) kidney. (b) liver (c) pancreas (d)du	odenum	

(ix)Animal husbandry is the scientific management of	
(A) Animal breeding (B) Culture of animals (C)Animal live	stock (D) Rearing of animals
(a) (A),(B) and (C) (b) (B),(C) and (D) (c) (C) and (D) (d) (A)	A) and (D)
(x) Pteridophyta do not have	
(a) Root. (b)Stem (c) flowers (d) leaves	
2. Answer in one word or a sentence:	(5x1=5)
(i) State Newton's first law of motion.	
(ii) What is relative density of a substance .	
(iii) Write one application of fractional distillation	l .
(iv) What do you mean by the term haemocoel?	
(v)How can you differentiate a healthy person from	om a disease free person?
3. Fill in the blanks:	(5x1=5)
(i) A method to liquefy atmospheric gases is	
(ii) Uniform circular motion is always	
(iii) Relative charge of a proton and an electron	is respectivelyand
(iv)Pneumonia is an example of	disease.
(v) Fresh initiatives for increasing the water available	able for agriculture include and
SECTION -B	
4. From Newton's second law of motion obtain	a mathematical expression for force .
OR	·
	(3)
A force of 5N produces an acceleration of $8m/s^2c$ a mass m_2 . What acceleration would the same	

together?

5.Derive the second equation of motion.6. (i) Convert 46° C to kelvin scale and 578K to celcius scale.	(3)			
(ii) Which are the factors on which rate of evaporation depends and (1+				
7. (i) If $Z=11$ and $A=23$, what would be the number of neutrons in the element .	e element ? Also name the			
(ii) Draw a sketch of chlorine atom showing its distribution of elect according to Bohr's theory.	rons in different shells (1+2)			
OR				
Explain Thomson's model of an atom.	(3)			
8.Enlist the characteristics of the phylum Echinodermata with specia	I mention to its symmetry.			
9. Give the disadvantages of use of pesticides. How can it be recovere	d?			
10. Tissue specificity of the infection leads to very general seeming ef with a proper example.	fects.Justify the statement			
SECTION – C				
11.(i) State the Universal Law of Gravitation.(ii) What is 'G'? What is its value?(iii) Write the importances of Universal Law of Gravitation	(1+1+3)			
OR				
Write the differences between mass and weight.	(5)			
12. Total momentum of two bodies remains unchanged before and a statement .	after collision . Justify this (5)			
13.(i) Write three differences between physical and chemical change	s with examples.			
(ii) Air is a mixture whereas water is a compound . Justify.	(3+2)			
14. (i) For the symbol of H,D and T tabulate three sub-atomic partic	cles found in each of them.			

(ii)Chlorine occurs in nature in two isotopic forms with r 3:1. Calculate the average atomic mass of chlorine atom (3+2)	
OR	
Describe the Bohr's model of an atom.	(5)
15.(i)What are antibiotics?	
(ii) How do they cause action against pathogens?	
(iii) Why antibiotics does not work against virus?	
16.(i)Why seeds needs to be dehydrated before storing?	
(ii) What are the other measures needed to be taken care of for s	toring food materials in graneries?
SECTION-D	
17. With the help of a labelled diagram describe briefly of two miscible liquids by distillation.	an activity to show the separation (3)
18. (i) Do all bodies immersed in a given fluid experience	e the same buoyant force? Explain
(ii) A 100cm ³ block has a mass of 395g. Find its relati	ve density. (2+1)
19The teacher had shown a student a specimen R and as Spirogyra .What features will the student look for the	