18. State two conditions necessary for rusting of iron?

PERAMBALUR (D+)

K

COMMON FIRST MID - TERM TEST - 2019 STANDARD-X

. Tin	ne: 1.30 hours	SCIENCE	Marks: 5
	Choose the correct answer:	· · · · · · · · · · · · · · · · · · ·	10×1=1
-	A and B are two objects with ma		espectively, then
2	a) both will have same inertia		
	c) A will have more inertia		
2	Power of a lens is -4D, then its	. 12/0/12/2	MANN
۷.	a) 4m b) -40m	_	d) -2.5m
. 3	Which of the following is a triato	-	0) 2.511
٥.	a) Hydrogen b) Helium		d) Carbon
4	A group of atoms chemically bor		
33	a) Atom b) Salt	's) molecule	d) alamant
5.	The number of groups and porior	ds in the periodic table s	u) element
٥,	The number of groups and period a) 18, 7 b) 7, 18	us in the periodic table a	
6.	The acid which makes iron passi	C) /, I/	d) 6, 16
7	a) Conc. HCl b) Conc. H ₂ SC	Ve is	1) 0 115
7.	Oxygen is produced at what point	of during photographs sign	d) Conc.HF
	a) When ATP is convered to ADP	h) Whan CO is si	
	c) When H ₂ O is splitted		xea
8.	Dental formula of rabbit is	d) All of these	, AMa a
-	10.33		2020
	a) $\frac{2033}{1023}$ b) $\frac{2003}{1003}$	c) 2023 1220	d) $\frac{2030}{1020}$
11	The body of leech has		1020
10	a) 23 segments b) 33 cogmon	c) 38 segments	d) 30 coamonto
10.	Down's Syndrome is a case of	of the degitients	d) 50 segments
	a) Euploidy b) Deletion	c) Translocation	d) Auenloidy
	Y and the second se		a) Adepiolog
11	Answer any 10 questions. [Q.N	o.17 Compulsory]:	10×2=20
	and the principle of moments		c2\40
13.	What is meant by weight lessness	5?	1813
14.	State Rayleigh's law of Scattering	WWW.	Muu
15.	Write any 2 applications of Conca Assertion and reasoning type:	ve lenses.	11/1
1	Assertion: Myonia is due to the in	orono la H o	
F	Assertion: Myopia is due to the in Reason: Myopia can be corrected	with the bole of	g power of eye lens.
ě	i) If both assertion and reason a of assertion.	re true and reason in the	e lens.
	of assertion.	is the and reason is the	correct explanation
	o) If both assertion and reason are of assertion.	true but reason is not the	Militaria de la companya della companya della companya de la companya de la companya della compa
4.7	of assertion.	- Andress Hot tue	correct explanation
	Assertion is true but reason is	false.	
16	Assertion is false but reason is	true.	Algeby
10.	True or False: [If false give the one of the false of the false is 42g.]	correct statement]	
	Calculate the number of molecules		iatomic.
18. 5	state two conditions necessary for		

19. Match the following:

atch the lollowing	Family
13 2 14 16 18	Noble gases Chalcogen family Carbon family Boron family Alkaline earth metals

- 20. Answer in a Sentence:
- a) What is the Common step in aerobic and anaerobic pathway?
 - b) Name the phenomenon by which carbohydrates are oxidized to release ethylalcohol.
- 21. Draw and label the structure of Oxysomes.
- 22. Fill in the blanks:
 - a) Excretory organ of leech is _
 - b) Segments of leech is _
- 23. What are Okazaki fragments?
- 24. Define Chargaff rule.

III. Answer in detail:

25. Define inertia.

What are the types of inertia? give an example for each type. (OR)

- 26. Explain the Construction and working of a "Compound Microscope".
- 27. Solve the following problems:
 - a) Calculate the % of each element in Calcium Carbonate. [Atomic mass C - 12 , O - 16 , Ca - 40]
 - b) Calculate the % relative abundance of B-10 and B-11, if its average atomic mass is 10.804 amu. (OR)
- 28. Metal A belongs to period 3 and group 13, A in red hot condition reacts with steam to form B. A with strong alkali [NaOH] forms C. Find A, B and C with reactions.
- 29. Differentiate the following:
 - a) Monocot Leaf and Dicotleaf.
 - b) Aerobic and Anaerobic respiration. (OR)

Xylem Phloem

- a) What do you infer from this diagram? Identify it?
- b) Classify the type.
- c) Give an example.
- 31. Explain the male reproductive system of rabbit with a labelled diagram.(OR)
- 32. How is the structure of DNA organized? What is the biological Significance of DNA?

www.Padasalai. Netust Revisien Mid Www.Trb Trpsc.com
common
Penambalun (Dt)

Xth Standard Answer Key.

- I Choose the best answer.
- U) (C) A will have more mertia.
- (2) (2) -0.25m (3) (3) (2) water (4) (2) molecule (5) (5) (5) 7,18
- (b) (c) conc. HNO3 (7) (d) All of these 8) (a) 2033
- (9) (b) 33 segments (b) (d) Aneuploidy.
- Il 2 mark.
- Principle of moments:
 At equilibrium, the algebraic Sum of the moments of all the individuals fooices about any Point is equal to zero.
- 12) weishtless ness !-

you actually feel as is you are falling freely without having any weight. This due to the phenomenon of weightless hess.

13) Reyleish's law of Scattering.

The amount of scattering of lisht is inversely proportional to the fourth power of lits wavelength. Sa 1/24

14) Application of Containe Cons:

(i) It is used as eye lens of Galilean Telescope (ii) It is used as in wide angle spy hole in door (iii) It is used to consect the defect of vision called myopia,

Deason are true and overson are called okaratic fragments. Is the toorrect captain to the fragments are joined together the fragments are joined to that in the fragments are joined to that in the proposition of adenine is always equal to that of thymine action in the assence of always equal to that of the fragments and pictures and the proposition of guarine and the proposition of guarine action in the assence of moisture is called dry corresive action in the assence of the fragments are the fragments. It is the toorrect captain the proposition. It is the toorrect captain the proposition are just to that in proposition and the proposition of guarine and the thing the always equal to that of the guarine and the proposition. It is the toorrect captain to the proposition of guarine and the proposition of guarine and the the proposition. It is the toorrect captain to the proposition of guarine and the proposition of guarine and the the proposition. It is the toorrect captain to the proposition of guarine and t			
monoatomic. 13) Dry coesocia: The location of deal to that of grants and the proparties of grants. 13) Dry coesocia: The location of grants early to proparties of grants and the proparties of grants. 14) Mr the absence of monostruction. The coepositive action in the proparties of the proparties. 15) Number of J. Interior of the proparties of the proparties of the proparties of the proparties. 16) Number of J. Interior of the proparties of the proparties of the proparties of the proparties. 17) Number of J. Interior of the proparties of the proparties. 18) Define Compenies. 19) Define Compenies. 19) Define Compenies. 10) Define Compenies. 10) Define Compenies. 10) Define Compenies. 11) The proparties of the proparties. 12) Define Compenies. 13) Define Compenies. 14) Define Compenies. 15) Define Compenies. 16) Define Compenies. 16) Define Compenies. 17) Define Compenies. 18) Define Compenies. 19) Define Compenies. 19) Define Compenies. 10) Define Compeni	(a) Both assertion and ocasion are true and ocasion are true and ocasions. 15 the connect explain & assertion.	The Shoot segments of arms of arms of arms of a segments one called okaraki fragments. The fragments are soined together by the entryme DNA ligase, by the entryme DNA ligase, the sayin chargalf states that in	$2Al + 3H_2O \rightarrow Al_2O_3 + B - All MINISTER ONLINE 2Al + CONSNADH + 2H_2O - ANALO2 + 3H_2O$
moliture is called any action [35] should be explain types - 3 mark Examples - I mark the prossure of molisture is should be conversion. The conversion in the prossure of molisture is should be conversed and in microscope of the molisture of the prossure of molisture is microscope of the molisture of the molis	monoatomic. 18) Libry coopasion: The coops	DNA, the proportion of adenine is always equal to that of thymine and the proportion of guanine sirealways equal to that of Cytosine	menecot lost and picot la menecot lost and picot la - 242 mas
Working and Construction which works moticules of the construction which moticules of the construction work moticules of the construction of the c	(ii) wet courosien: The courosive action in the	osion 25) Inertia - Imark Examples - Imark Examples - Imark	30) (às Concentric and I Im
Diagram with J-III labelled raited 2 127. 13 - Boran Family 2 - Alkaline earth metals 14 - Courbon family 16 - Chalcogen farmily 18 - Noble 303. 18 - Noble 303. 10 - 840 amu = (100 - 00) x 10 to 400 x 10 2 300 x 10 300	Number of J = 6.023x10 ²³ x miss war molecules of GMM = 6.023x18 ²³ x 36	att) (i) Foormula: Atomic mass male mass male atomic mass	(b) Classify types! 3m (c) Exemples: I mank 31) male neproductive syste 32) of Robbit !-
16 - Chalcogen family 18 - Noble 3023. 20.840 amm = (100 - 02) x 10 + 02 x 11 20.84	(19) Group Number Family. 13 - Booran Family 2 - Alkallne Earth metals	$C \rightarrow \frac{12700}{0} = \frac{127}{0}$ $0 \rightarrow \frac{48100}{0} = \frac{127}{0}$	Diagram with July labelled Parts 2 Explain - 31/2 mark
(b) Analogobic Respiration 100 1000 + 10000 + 10000 + 10000 + 10000 + 10000 + 10000 + 10000 + 10000 + 1000	16 - Chalcosen family 18 - Noble 9013. 20) is Glycolysis	10.840 amu = (100-a2)×10 +a2×11 1000	
(ii) 33 Segments. $9.480.4 \le 100$ PERAMBALUR (Dt) 0.000 Somes.:- Book page no: 183. $8-10 = 19.6\%$. Email: devadineshphy $B-11 \le 80.4\%$. Smail. com.	It takes place without 02 Glucose (or) Carbohydrate	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	PGI ASSISTANT IN PHY GIREENPARK MATRIC
B-11=80.47. Smail.com.	(ii) 33 Segments.	a, +80.4 = 100 a, = 100-80.4 = 19.67,	PERAMBALUR (D+)
	A PARTY OF THE PAR	B-11=80.47,	
			Scanned by CamScanner