## ADITYA TALENT SCHOOL

X CLASS DAILY EXAM Dt : 20-04-2020

# GENERAL SCIENCE - 1 (25 MARKS)

		<u>3EC</u>	TION - I			
	<sup>1</sup> / <sub>2</sub> mark question	ıs.	$20 \times \frac{1}{2} = 1$	10		
1.	Define dispersion of I	ight.				
2.	Match the following					
	1) Violet	a) Maximum dev	riation			
	2) Red	Red b) Minimum aeviation				
3.	A: The focal length of eye lens has fixed value.					
	B: Light enter in to e	ye may changes	by size of pupil.			
4.	The focal length of ler	ns is 20 cm. It's p	ower is			
5.	Which lens is used fo	r correcting Myop	oia.			
6.	The maximum visual	angle for a perso	n is			
	a) $_{120^0}$ b) $_{60^0}$	c) 45 <sup>0</sup>	d) $90^{0}$			
7.	Which process involv	ed in formation o	f Rainbow			
	a) Refraction	b) Disper	b) Dispersion			
	c) Total internal reflec	tion d) Reflect	ion			
8.	The far point of a pers	on is 100 cm. Th	e power of lens used to correct the defect is $\_$			
9.	Which of the following is constant for objects at different positions					
	a) Objects distance	b) Focal I	b) Focal length of eye lens			
	c) Image distance	d) All the	d) All the above			
10.	Match the following. In	Match the following. In prism				
	Column -I	Column -	Column -II			
	a) Velocity of Violet	i) Maximu	i) Maximum			
	b) Velocity of Red	ii) Minimu	ii) Minimum			
		iii) Same				
11.	Identify the odd one regarding the type of Hybridisation					
	a) $CH_4$ b) $H_2C$	$O \qquad c) NH_3$	d) BeCl <sub>2</sub>			
12.	Statement I : " $P_i$ " bond has independent existence.					
	Statement II : " $P_i$ " bond is formed by the lateral overlap of orbitals.					
	Now, choose the corre					
	,	•	b) I is correct and II is incorrect			
	c) I is incorrect and II is correct					
	d) I and II both are inc					
13.	Among the following,		t?			
	a) $CH_4$ b) $CaC$	c) <i>KCl</i>	d) <i>Na</i> <sub>2</sub> <i>S</i>			

14.	Match the following					
	i) Double bond	[]	p) $C_2H_2$			
	ii) Triple bond	[]	q) <i>Cl</i> <sub>2</sub>			
			r) $C_2H_4$			
15.	How is a cation form	ed?				
16.	The bond angle in $B$	$F_3$ mole	ecule is			
17.	What is the shape of Ammonia molecule?					
18.	Assertion (A) : $H_2O$ molecule gets 'V' shape.					
Reason (R) : In $H_2\mathcal{O}$ , the central atom 'O' has one lone pair of electrons.						
	Now, choose the co	rrect o <sub>l</sub>	otion.			
	a) 'A' and 'R' both ar	e corre	ect and 'R' is true correct explanation of 'A'.			
b) 'A' and 'R' both are correct, but 'R' is not the correct explanation of 'A'.						
	correct.					
	d) 'A' is incorrect and	correct.				
19.	In $NaCl$ crystal, the	coordi	nation member of $_{Na^+}$ is and that of $_{Cl^-}$ is _			
20.	Among NaCl, H <sub>2</sub> , Cl	$_2$ and $H$	${\it Cl}$ , which is having polar covalent nature?			
			SECTION - II			
	1 mark question	าร.		15 x 1 = 15		
21.	Define accomodatio	n of ey	re.			
22.	Define scattering of	light.				
23.			d minimum focal length of eye lens.			
24.		•	assing through prism.			
25.	Define hypermetropia.					
26.	Why is the sky apperas white at noon					
<ul><li>27.</li><li>28.</li></ul>	Why is the red colour selected for danger signal lights					
29.	How is a sigma bond formed?  What is a chemical bond?					
30.	What is ionic bond?					
31.						
32.	Define Bond length.					
33.	What is the bond an	gle in	the following molecules?			
	a) $CH_4$ b) $N_2$	$H_3$	and c) $H_2O$			
34.	What is Hybridisation	n?				
35.	Represent the follow	ving at	oms using Lewis notations			
	a) Sodium and	b) Aı	gon			

### **ENGLISH - 2 (25 MARKS)**

#### I. Read the following passage.

There is one thing that is yours alone, which no one else can have, and that is the pattern of your fingerprints. You leave your fingerprint behind when you touch anything. The Chinese were the first people to realise this.so they used a thumb-print instead of a signature on very important documents. A Signature can be copied but thumb print can't be.In the late 19th century the real importance of fingerprints became known. A man called Francis Galton began to study the ridges of the finger tips. He found that no two people had the same pattern of ridges. He also learnt that the pattern does not change as a person grows older. The police saw at once how finger prints could help them. They began to keep records of the finger prints of people who were known to be criminal. When the police want to find out whether a suspect has committed other crimes before, they take his fingerprints and compare them with those they have. With so many prints on record, it would seem very hard to check but an expert can usually find out in a few minutes. The Prints on record are divided into different groups: doors with patterns that slope to the right, those that slope to the left, those that have rings, and so on. Some have more ridges than others and some have lines that cut across them. Once the expert knows which group the fingerprints belong to, all he has to do is to look up only that section and see whether the same pattern is already there.

#### Now arrange the following sentences in a meaningful order.

5x1=5 m

- 1. As result of his discovery the police began to keep records of criminals.
- 2. Sir Francis Galton found that no two persons had the same fingerprints.
- 3. When we touch anything we leave behind our fingerprints.
- 4. The Chinese found this and used a thumbprint instead of a signature because it cannot be copied.
- 5. To find out whether a suspect has committed other crimes before, the police compare his fingerprints with those they already have.
- II. Read the paragraph and write the synonyms of the underlined words choosing from the words given in the box.  $4\times^{1}/_{4}=2m$

Fame	Support	Described
Critics	Prosperity	Allegations

Roberge does not <u>endorse</u> (a) the <u>accusation</u> (b) of Ray's <u>detractors</u> (c) that the master director made his reputation selling India's poverty to the west." What struck me most was not the material poverty <u>depicted</u> (d) in the films, but the enormous spiritual poverty of some rich people is much more deplorable than material poverty " he said.

III. Read the paragraph and match the words under 'A 'with their antonyms under 'B'. In these three films Ray was at his most <u>personal</u> (a) and when some critics saw the films as didactic and <u>verbose</u> (b) I felt <u>deeply</u> (c) hurt. For, in these last films, Satyajit was <u>directly</u> (d) talking to us.

4×¹/₂=2m

Α.	В.
a) personal	<ol> <li>Indirectly</li> </ol>
b) verbose	<ol><li>Lightly</li></ol>
c) deeply	<ol><li>Private</li></ol>
d) directly	<ol><li>Straightly</li></ol>
	<ol><li>Succinct</li></ol>
	6. Impersonal

IV.	One importation (establish/establish/establish/establish) establish (establish/establish) establish (establish) establish (establish	ant fallout of ablishment) of ch Bengal, which Ro If friendship, le I/governed) bod	this (a) (friently) initrabani, a communication (found entering) int his name as	rds given in bracket endship/ friendly) inication and film instit d/ founded) in 1970 a co-founder. Ray wa w terms readily agre	was the(b). ute, the first to its nd to which Ray, as in the first
V.	There began h	spelling of the nis long standing	` ,	o, <b>ie, ee, ei, ea.</b> with Bengali cinema a	2×¹/₂=1m nd culture, which
VI.	Complete the He found the	words with co	, -	en in brackets eng) that he saw all t with the works of Sat	
VII.			and write its corr		2×1=2m
1.	colosus	dictum	stature	aloof	
2.	humour	unassuming	disceret	reality	
VIII.	Read the follo	owing dictionar	y entry of the wo	rd'Lethargy' given b	elow. 2×1=2m
1. 2. <b>IX.</b>	Now answer to What is the de Arrange the f	the following quarts of speech of	eth.ar.gic /Iə 9a lethargic. uestions using th the word 'lethargic ord 'lethargy'? s under the correc		rug-/ auj
		civilization,		bimorph	
	msecticide,	Civilization,	regress,	ыногрп	
	Words with P	refixes	Words with	Suffixes	
	1)		1)		
	2)				
	•		•		
Χ.	4)		 ns in sentences o	of your own	4x1=4 m
711	Use the follow		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	o. you. ow	
			eak out	•	481-4111
	A) Phrasal ver	rbs : fr		-	4X1-4 III
	A) Phrasal ver B) Idiomatic ex	rbs : fr	nuster up confiden	-	4X1-4 III
	<ul><li>A) Phrasal ver</li><li>B) Idiomatic ex</li><li>C) Binomial ex</li></ul>	rbs : fr xpression : m	nuster up confiden ear and dear	-	4X1-4 III
XI.	A) Phrasal ver B) Idiomatic e: C) Binomial e: D) Foreign ex Match the foll	rbs : fr xpression : m xpression : n pression : li <b>owing one-wor</b>	nuster up confiden ear and dear ngua franca <b>d substitutes in P</b>	-	nings in Part - B
XI.	A) Phrasal ver B) Idiomatic ex C) Binomial ex D) Foreign ex Match the foll A	rbs : fr xpression : m xpression : n pression : li owing one-word	nuster up confiden ear and dear ngua franca d substitutes in P	ce	
XI.	A) Phrasal ver B) Idiomatic et C) Binomial et D) Foreign ex Match the foll A	rbs : fr xpression : m xpression : n pression : lin lowing one-wore B A) a	nuster up confiden ear and dear ngua franca d substitutes in P	ce  art - A with their mea  ith same characters.	nings in Part - B
XI.	A) Phrasal ver B) Idiomatic et C) Binomial et D) Foreign ex Match the foll A 1. Geologist	rbs : fr xpression : m xpression : n pression : lii <b>owing one-wor</b> <b>B</b> A) a B) a	nuster up confidence ear and dear ngua franca d substitutes in P set of three film w scientist who stud	ce  art - A with their mea  ith same characters.	nings in Part - B
XI.	A) Phrasal ver B) Idiomatic ex C) Binomial ex D) Foreign ex Match the foll A 1. Geologist 2. Trilogy	rbs : fr xpression : m xpression : n pression : lin bowing one-word A) a B) a C) a	nuster up confidence ear and dear ngua franca d substitutes in P set of three film w scientist who stud person who know	ce  art - A with their mea  ith same characters. dies physics.	nings in Part - B 4 x <sup>1</sup> / <sub>2</sub> = 2 M
XI.	A) Phrasal ver B) Idiomatic ex C) Binomial ex D) Foreign ex Match the foll A 1. Geologist 2. Trilogy 3. Didactic	rbs : fr xpression : m xpression : n pression : lin owing one-word A) a B) a C) a D) a	nuster up confidence ear and dear ngua franca d substitutes in P set of three film w scientist who study person who know statement that is l	ce  art - A with their mea  ith same characters. dies physics. vs many languages.	nings in Part - B 4 x <sup>1</sup> / <sub>2</sub> = 2 M d followed