#### **ENTRANCE EXAM**

**CLASS-VIII** 

Time: 2.5 Hrs

MM: 100

### Instructions:

- 1. All questions are compulsory.
- 2. All questions must be answered in the question booklet itself in the space provided for this purpose.
- 3. All sub-questions under the main question carry equal marks.
- 4. Rough work, if required, may be done on the last few pages of this question booklet, provided for the purpose.

### Part-A (English)

35 Marks

1.	Read the unseen passage below and answer the
	questions that follow:
	(10)

Mirrors have been used since ages. It is said that Archimedes used huge mirrors to focus the heat of the sun's rays on the enemy ships to burn them. The same principle is used in solar cookers where mirrors are used to reflect and focus the sun's rays on to cooking containers. Astronomers use huge concave mirrors to focus starlight.

The mirrors used in telescopes are polished by giving a thin coat of silver or aluminum to the glass. With the telescopes, astronomers can see the heavenly bodies but even without the telescopes one can see the moon.

A full moon shining overhead is a beautiful sight, but it is also a puzzle because if the sun and the moon both give the same sunlight, then why is the moonlight more pleasant? The reason is that the moon reflects very little sunlight, in fact, only seven percent of the light is receives. The earth reflects about half of the radiation that it receives from the sun. Imagine how bright the earth will look from the moon? One can even read a book on the moon in the earth light. However, you do not have to travel all the way to the moon to realise how strong the earthlight is. Observe the crescent moon soon after the new moon. The bright

earthlight in othe	inated by the sun. The rest of the eart words, the light reflected by the eart lected back to us and is strong enough to creases in size.	h is falling on the moon
Fresh snow is the it can dazzle and glasses.	best reflector of sunlight in nature, the harm the eyes of mountaineers, and	bright light reflected by therefore they use dark
(a) What are the	ne three uses of the mirrors indicated in	the early paragraphs?
(b) Which met telescopes	als may be used to polish mirrors so that	they may be used in
(c) Why do mo	ountaineers have to use dark glasses?	
State True	or False:	
I	en read a book on the Earth in the	
moonlight.		
,	reflects about 50% of the radiation that	
	from the sun.	
	e word which is similar in meaning to	
the followi	ng words/phrases in the passage:	<i>y</i>
(f) Sickle-shap	ed	
(g) A bright lig		
2.	Write an Essay on:	
	'Lockdown and its consequences in In	dia?'
	OR	
	Tell something about three important	skills that you have
	picked up or aspire to pick up in your	_
	(200 words)	(10)

3.	Convert the following sentences from active voice to passive voice: (6)
a)	They were criticising me unnecessarily.
b)	Mr. Kalelkar's evidence might strengthen our case.
<b>:</b> )	In the past, people believed that the earth was flat.

Question No.	Question	Space for Answer	
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4.	Replace the infinitives with a gerund in following sentences: (4)	
a)	I prefer to stay home on Sunday.	
b)	To see is to believe.	
5.	Fill in the blank with the most suitable option given: (5)	
a)	Each one of us a story to share. (has/have/having/are having)	
b)	I take my dog walk every morning. (for a/to a/for the/to the)	
c)	She doesn't like sweets, she? (doesn't/does/don't/do)	
d)	Fifteen years a long period of time. (is/are/have/had)	
e)	My hands are dirty because I in the garden. (work /worked/working/was working)	

## Part-B (Maths)

## 30 Marks

Question No.	Question	Space for Answer
1.	Find the answer to the following: (5)	
a)	$\frac{5}{4} = \frac{-15}{?}$	A Marine Control of the Control of t
b)	$\frac{2}{3} + \left(-1\frac{5}{7}\right) = ?$	

Question No.	Question	Space for Answer
c)	$\frac{-7}{12} \div \left(\frac{-2}{13}\right) = ?$	
d)	Express 432 as a product of powers of prime factors.	
e)	If p=-2, find the value of $-3p^2 + 4p + 7$	
2.	Fill in the blanks: (5)	
a)	If CP=SP, then there is profit.	
b)	If two sides of a triangle are 2 cm and 3 cm, the third side should necessarily be greater than cm.	
c)	A line that intersects two or more lines at distinct points is called a	
d)	Supplementary angle of 80° would be	
e)	The standard form of $\frac{-3}{-15}$ is	
3.	Answer the following: (10)	
a)	If angles of a triangle are in the ratio 2:3:4, find the value of each angle.	
b)	Considering a man's speed to be 1/6 <sup>th</sup> of a Cheetah's speed, find the speed of latter, if the man's speed is 25 kmph.	
c)	The population of a city decreased from 25,000 to 24,500. Find the percent decrease?	
d)	A vehicle covers a distance of 43.2 km in 2.4 litres of petrol. How much distance will it cover in 3 litres petrol?	
4.	Find the answer to the following problems: (10)	

Question No.	Question	Space for Answer
a)	If the diameter of the circle in adjacent figure is 14 cm, find the area of the figure, in which half the circle is superimposed onto the square.	
b)	Mrs. Roy spent Rs. 44,620 on Deepawali shopping, Rs.32,764 on buying laptop and the remaining 32% of the total amount she had as cash with her .What was the total amount and how much cash is she left with?	

# Part-C (Social Science)

## 20 Marks

Question No.	Question	Space for Answer
1.	Select and write the correct answer: (5)	**************************************
a)	When the river tumbles at steep angle over hard rocks, it forms a  (glacier/meander/waterfall)	
b)	The centre established by Baba Guru Nanak on the banks of river Ravi was at  (Amritsar/Kartarpur/Talwandi)	
с)	If a lady is a homemaker, she is a person. (working/non working/hardly working)	

Question No.	Question	Space fo	or Answer
d)	If a person's kidneys fail, their blood is		
u)	periodically filtered through an artificia	l kidnev	
	through a process called	Ridirey	
	(diagnosis/dementia/dialysis)  The periodic motion of a simple pendul	um is	
e) .		uiii is	
	known as		
	(vibration/oscillation/observation)	<b>/=</b> \	
2.	State TRUE or FALSE:	(5)	And the second s
a)	In a democracy, there is no place for pu	blic	
	protest.		,
b)	Savannah of Africa is an example of Tro	pical	
	Grasslands.		
c)	Ananga Pala from the Tomara dynasty o	of Rajputs	
	first established his capital at Delhi.		
d)	If dipped into it, a lime water solution w	vill have	
	no effect on a strip of red litmus paper.		
e) '	Increased wind speed is accompanied by	y a	
	reduced air pressure.		
3.	Answer the following questions:	(10)	
	(Each question carries 5 marks. Attemp	+ ANV	
	TWO. 200 words)	CAN	
a)	Discuss the working of a State Governm	ent in India	

b)	Why do we respire? Bring out the difference between aerobic an
	anaerobic respiration.

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		_
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		_
c)	Explain the difference between Physical and Chemical changes	
c)	Explain the difference between Physical and Chemical changes	_
с)		_
с)	Explain the difference between Physical and Chemical changes giving two examples of each.	
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# Part-D (General Knowledge)

Question	Question	Space for Answer
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1.	Identify the following famous Indians: (5)	
a)	The Gandhian leader who started the	
	Bhoodan Movement to collect land for the	
	landless people of the country.	
b)	The great Hindu religious priest who	
	established the four famous mathas at	-
	Sringeri, Dwarka, Puri and Joshimath.	
c)	The great social worker who served to	
	improve the life of leprosy patients in his	a v v v v
	ashram 'Anandwan' at Chandrapur,	
	Maharashtra.	
d)	The great freedom fighter, also known as	
	the Iron Man of India.	
e) .	The tenth and last Guru of the Sikhs who	
	created the Khalsa to defend the week.	
2.	State TRUE or FALSE: (5)	
a)	St. John was the disciple of Jesus Christ	
	who came to India.	,
b)	Ornithology is the study of structure of the	
	Earth.	
c)	Thar desert is the largest desert in India.	
d)	Professional rider in a horse race is known	
	as the Ballet.	
e)	Kuala Lumpur is the capital of Indonesia.	
3.	Answer the following questions: (5)	
a)	Who is the first woman Fighter pilot of	
	India to feature at the Republic Day	
	parade?	

Question No.	Question	Space for Answer
p) .	'Desert Knight-21', which was making news recently, is the Military exercise between India and which country?	
c)	The recent New Education Policy has been issued in which year?	
d)	Where is the headquarters of the 'National AIDS Control Organisation (NACO)' located?	
e)	Who is the current Home Minister of India?	

## **SPACE FOR ROUGH WORK**