

GREEKS CLASSES BRINGS... SCIENCE APTITUDE TEST (2020-21) SAMPLE PAPER



Time : 3 Hours

M.M.: 300

Please read the instructions carefully. You are allotted 5 minutes specifically for this purpose.

A. General:

- 1. This booklet consists of 100 questions.
- 2. Blank papers, clipboards, log tables, slide rules, calculators, cellular phones, and electronic gadgets in any form are not allowed to be carried inside the examination hall.
- 3. The answer sheet, a machine-readable Objective Response Sheet (OMR), is provided separately.
- 4. DO NOT TAMPER WITH / MUTILATE THE OMR OR THE BOOKLET.
- 5. Write Name and Address in capital letters of OMR sheet.
- 6. Submit the OMR Sheet back to Invigilator after examination before leaving the examination hall.

B. Question paper format:

- 7. The question paper consists of 4 Sections.
 - (I) Mental Ability (20 Questions)
 - (II) Mathematics (30 Questions)
 - (III) Physics & Chemistry (34 Questions)
 - (IV) Biology (16 Questions)

C. Marking Scheme :

8. For each question in **Section I, II, III and IV** you will be **awarded 3 marks** if you have darkened only the bubble corresponding to the correct answer and zero mark if no bubble is darkened. In all other cases where the answer marked is not correct, **minus one (-1) mark** will be awarded.

Class

Name of the Candidate

I have read all the instructions and shall abide by them

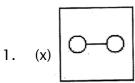
Signature of the Candidate

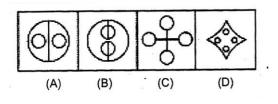
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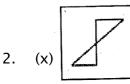
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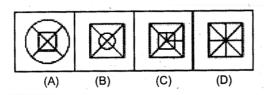
MENTAL ABILITY

Direction : Figure (x) is embedded in one of the four answer figures marked as (A), (B), (C) and (D). Find the answer figure that contains figure (x).

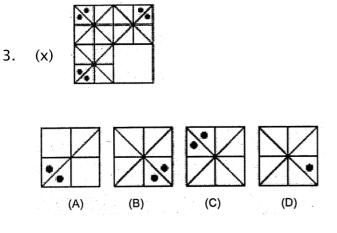


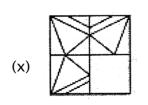


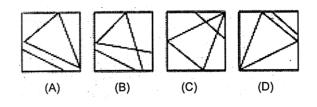




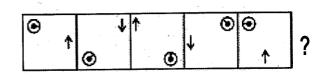
Direction: Select the figure from the four answer figures marked (A), (B), (C) and (D) which when placed in the blank space of figure(x) would complete the pattem.



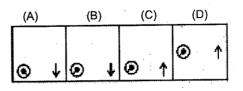




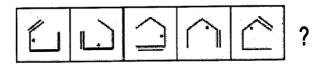
- Direction : Given below are the two sets of figures the probelm figures and the answers marked (A), (B), (C), and (D). Which figure from (A), (B), (C), and (D) would be the next in the series of the probem
- 5. Problem Figure



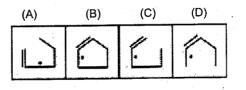
Answer figures



6. Problem Figure



Answer figures



- 7. If '+' means 'x', 'x' means '-', '-' means ' \div ' and ' \div ' means '+', then 18 \div 4 + 3 \times 2 2 = ?
 - (a) 45 (b) 48

(c) 29	(d)	39
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PA	GE # 3 GREEKS CLASSES I						
8.	If A is B's brother, B is C's sister and C is D's	 True' is related to 'False' as 'float' is related to 					
	father, then D is A's	(a) Swing (b) Swim					
	(a) Brother (b) Sister	(a) Swing (b) Swin (c) Sink (d)					
	(c) Wife (d) None of these	Dive 17. SUWY : LPTX :: PRTV:					
Dire	ction : Among the four given figures, three						
	figures follow the same pattern and one	(a) INRU (b) INQU					
	figure is different from these three. Mark this figure (which is different from the other three)	(a) INRU (b) INQU (c) IMRU (d) IMQU					
	as your answer.	18. If 5 men can build a wall in 12 days. How					
		many men can build it in 10 days?					
	(A) (B) (C) (D)	(a) 6 men (b) 7 men					
	$ \xrightarrow{\longrightarrow} \xrightarrow{\longrightarrow} \xrightarrow{\longrightarrow} \xrightarrow{\longrightarrow} $	(c) 8 men (d) 4 men					
9.		19. Which one is the same as Basket, Pail and Pan?					
		(a) Knife (b) Spoon					
		(c) Fork (d)					
		Bowl 20. Socks : Feet :: Hands:					
	(A) (B) (C) (D)	(a) Arms (b) Shirt					
		(c) Gloves (d) Fingers					
		MATHEMATICS					
10.							
		1. Integers are not closed over (a) Addition (b) Subtraction					
11.	How many odd days are there in 352 days?	(c) Multiplication (d) Division					
	(a) 1 (b) 2	2. The two consecutive integers between which					
12.	(c) 3 (d) zero If 5 th January 2001 was a Friday then 25 th	5					
12.	December 2001 was a	5 7 lies are					
	(a) Monday (b) Tuesday	(a) 5 and 6 (b) 0 and 1					
	(c) Wednesday (d) Thursday	(c) 7 and 8 (d) 6 and 8					
13.	The calendar for the year 2001 is the same as						
	that of which of the following years?	3. If we divide $\frac{1}{3}$ by 6, we get					
	(a) 2005 (b) 2006						
	(c) 2007 (d) 2008	(a) 2 (b) $\frac{1}{2}$					
14.	In a certain code language, if the word	(a) 2 (b) $\frac{1}{2}$					
	'RECTANGLE' is coded as TGEVCPING, then	(c) $\frac{1}{18}$ (d) $\frac{1}{36}$					
	how is the word 'RHOMBUS' coded in that	18 30					
	language? (a) TJOQDWV (b) TJQNDWU	4. To convert 88.888 to 88888, we multiply it by					
	(c) TJQODWU (d)	(a) 100 (b) 1000					
	TJQOEWU	(c) 10 (d) 10000					
15.	In a certain code language, if the number 1 is	5. If we divide 60.0 by 50, we get					
	assigned to all the letters in odd numbered	(a) 12 (b) 1.2					
	placed in the alphabet and the remaining	(c) 0.12 (d) 120					
	letters are assigned the number 2, then what	6. If 10 erasers cost Rs. 100.50, one eraser costs					
	is the code of the 'INDIAN'?	(a) Rs. 10 (b) Rs. 20.5					
	(a) 121212 (b) 111222	(c) Rs. 10.50 (d) Rs. 10.05					
	(c) 112212 (d) 122112						

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7.	The smallest rational following is:	number among the	19.			
	0			(a) 5:1		10:1
	(a) $\frac{0}{1}$	(b) 1	20	(c) 1 : 200	• • •	1:20
	I		20.	The cost of a doze	n banana	as is ks. 20, so i a
	(c) – 1	(d) 2		bananas will cost		
8.	a ⁸ ÷ a ³ will be			(a) Rs. 35		Rs. 30
	(a) a ⁸³	(b) a ⁵		(c) Rs. 40		Rs. 25
	(c) a^{11}	(d) a^0	21.	108 apples can be pa		8 boxes, so to pack
).	(-1) ²³ will be			60 apples we need		15 hoves
•	(a) - 1	(b) 1		(a) 9 boxes		15 boxes
	(c) 23	(d) 0	22	(c) 12 boxes	(d)	10 boxes
0.	$45^{\circ} + 19^{\circ}$ is the same a		22.	If 25% of x is 200, s		100
0.	(a) - 1	(b) 2		(a) 50	(b)	100
	(c) 1	(d) 0		(c) 400		800
1.	(- 4) ³ will be	(u) U	23.	By what per cent 5:		
1.	(a) 16	(b) -16		(a) 200%		400%
	(c) - 64	(d) 64		(c) 100%		600%
2.	Which of the followir		24.	What per cent is 6		
۷.	notation?	ig is in the scientific		(a) 10%		6%
	(a) 0.9×10^3	(b) 0.09×10^{-3}		(c) 5%		26%
	(c) 9.9×10^4	(d) 0.9×10^{-3}	25.	If Rs. 100 amounts is the rate of inter		20 in 2 years, what
3.	If $a = 1$ and $b = (-3)$, t	the value of 4ab ³ is		(a) 5%	(b)	10%
	(a) – 36	(b) 36		(c) 2%	(d)	20%
4.	(c) -108 If we add $4m^2$ n and $-$	(d) - 72 3m ² n, we get	26.	x% of one -third of		
	(a) – 7m²n	(b) 7m²n		(a) $\frac{xz}{200}$	(b)	<u></u>
	(c) – m²n	(d) m² n		^(a) 300	(5)	100
5.	If 2m - 6 = 14, then 2r	n - 6 + 4 will be		(c) <u>X</u>		<u>300</u>
	(a) 18	(b) 16		(c) $\frac{100}{100z}$	(d)	XZ
	(c) 12	(d) 14	27.	The point of concu	rrence o	f the medians of a
6.	m = 4 is the root of wl	nich equation?		triangle is called t		
	(a) 10 m = 5	(b) 6m = 12		(a) centroid	(b)	orthocentre
				(c) circumcentre	(d)	incentre
	(c) 3m = 12	(d) $\frac{m}{2} = 6$	28.	The exterior angle of interior opposite		
7.	The root of the equation	n 2y + 1 = 7 is		(a) 100°, 20°	(b)	40°, 35°
	(a) y = 3	(b) y = 2		(c) 40°, 50°		80°, 10°
	(c) y = 7	(d) y = 1	29.	Which triplet can fo		-
8.	The sum of 2 consecut numbers are	ive numbers is 63. The		(a) 2 cm, 3 cm, 8 d	cm	5
	(a) 40, 41	(b) 39, 40		(b) 1 cm, 10 cm, 7		
	(c) 32, 33	(d) 31, 32		(c) 3 cm, 4 cm, 5 c		
	·-/ -=,	··· ·· · · · · · · · ·		(d) 9 cm, 2 cm, 4 d	cm	

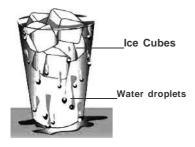
PA	GE # 5 GREEM	S CLASSES IIT FOUNDATION	CLASS - 6		
30.	The sides of a rectangle are 9 cm an So the length of the diagonal is (a) 21 (b) 19 cm (c) 15 cm (d) 20 cm	d 12 cm. 11. What type of path does (a) Straight path (c) Tringular Path (d) Zig-Zag Path 12. Which resource is non-	(b) Circular Path -renewable?		
	PHYSICS & CHEMISTRY	(a) coal	(b) diamonds		
1.			(d) all of the above		
1.	What is the Earth's complete travel the Sun?	(a) nerve	(b) heartbeat		
	(a) hemisphere (b) revolut	. ,	(d) blood group		
	(c) rotate (d) orbit		of clothes do you prefer		
2.	The force with which earth attracts	,,	, ,		
	towards it?	(a) Light coloured clot	thes		
	(a) gravitation (b) friction	(b) Woollen clothes			
	(c) pressure (d) inertia	(c) Dark clothes	(d) Plastic clothes		
3.	Choose the magnetic materials.	15. The only natrual satelli	te of the earth is?		
	(a) Iron (b) Steel	(a) Mars	(b) Sun		
	(c) Plastic (d) Both 1	& 2 (c) Moon	(d) Jupitar		
4.	Which soil is most fertile?		ke a good insulator of		
	(a) Sandy (b) Red	electricity?			
	(c) Alluvial (d) yellow	(a) Copper wire (c) Gold wire	(b) Aluminum foil (d) Plastic		
5.	What is the earth's primary source of	energy? (C) Gold wife 17. Oil floats on water bec			
	(a) Moon (b) Mars				
	(c) Jupitar (d) Sun	(a) Oil is less dense th (b) Oil is more dense			
6.	Longest day of the year in india?	(c) Oil and water have	e the same density		
	(a) 21 june (b) 13 mar	(d) Oil and water both	-		
_	(c) 21 december (d) 24 dece	ember	mixture can be sepa-		
7.	The resistor in a light bulb is called	rated easily by using	· · ·		
	(a) an insulator.	(a) Sand + Water			
	(b) an electric charge	(b) Iron dust + Sand			
	(c) a filament.	(c) Saw dust + Stones	5		
0	(d) a power source	(d) Stones + Sand			
8.	Which of the following can be used electricity?	19. What is the process of s matter in water called	etting down of insoluble d?		
	(a) fossil fuels(b) moving(c) solar energy(d) all of th	e above (a) Distillation	(b) Sedimentation		
9.		(c) Condensation	(d) Filtration		
э.	Magnets have how many poles? (a) 2 (b) 4	20. Substance P does not	have a fixed volume. It		
	(a) 2 (b) 4 (c) 3 (d) 1		e of the container and it		
10.	Device which is used to break the ci	can be compressed. W	-		
	(a) conductors (b) electric	cells (a) Solid	(b) Liquid		
	(c) resistors (d) switch		(d) Fluid		

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- 21. Which of the following changes is possible with the application of heat?
 - (a) Water changes to ice.
 - (b) Water vapour changes to ice
 - (c) Ice changes to water
 - (d) Water vapour changes to water
- 22. Which gas in air is represented by part A?

A 78%, B 21%, C 1%

- (a) Nitrogen (b) Oxygen
- (c) Carbon dioxide (d) Water vapour
- 23. Which of these is/are fossil fuels?
 - (a) Coal (b) Kerosene oil
 - (c) Natural gas (d) All of these
- 24. A glass with ice cubes is shown here



The formation of water droplets on the outer surface of the glass is due to

- (a) evaporation (b) transpiration
- (c) condensation (d) sublimation.

25. Observe the given figure.



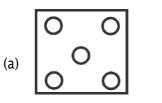
Which of the following helps the girls in sipping drink from the bottle using a straw?

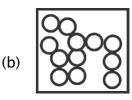
- (a) Bottle pressure (b) Air pressure
- (c) Liquid pressure (d) Chemical energy
- 26. Which of the following gases is used in fizzy drinks to get tingling taste?
 - (a) Oxygen (b) Nitrogen
 - (c) Carbon dioxide (d) Hydrogen

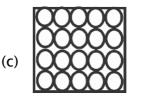
- 27. Which of the following is NOT a method used to remove insoluble impurities in water?
 - (a) Sedimentation (b) Decantation
 - (c) Filtration (d) Distillation
- 28. In an activity, 20 gm of salt is dissolved in 70 ml of pure water. The water is then heated on a hot plate.

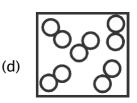
When water evaporates completely, how much salt will be left?

- (a) 0 gm (b) 18 gm
- (c) 20 gm (d) 22 gm
- 29. Which of the following shows the arrangement of particles in an iron rod?









- 30. Identify the metal used to make the body of an aeroplane.
 - (a) Silver (b) Iron
 - (c) Copper (d) Aluminium
- 31. Which of the following activities cause pollution of air?
 - (a) Carbon dioxide released by human beings and plants.
 - (b) Smoke released by factories, thermal plants and automobiles
 - (c) Growing grass plants
 - (d) Washing animals and clothes.
- 32. Which of the following factors affect the rate of evaporation of water?
 - (a) Wind (b) Temperature
 - (c) Surface area (d) All of these
- 33. Abi dissolved some sugar and salt in water. He got a mixture of sugar, salt and water. What is the solvent in the experiment?
 - (a) Sugar (b) Salt

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(c)) Water		8.	Whic	ch of these plar	nts is a sk	arub
(d) Sugar and salt solu	ution	0.		Coriander	(b)	Mint
34. W	hich of the following	methods kill most of		. ,	Radish	(d)	Bougainvillea
th	e microbes in drink	ing water?	9.	• •	ch of these pla		-
(a) Boiling		⁵ .		Teak	(b)	Neem
(b) Mixing salt to wate	er		• •	Mango	(d)	Maize
(c)) Freezing		10		ng photosyntl		Maize
(d) Filtration		10.		••••		
	BIOLO	GY			Oxygen is abso Carbon dioxide		cod
. w	hich one of the followi	ng food item does not		. ,			seu.
	rovide dietary fibre?	5			Oxygen is rele		
(a) Whole grains				Nitrogen is ox		
(b) Whole pulses		11.		hworms breath	-	
(c)) Fruits and vegetab	es			Lungs Skin		Gills Air tubo
(d) Milk		1.2	• •		(d)	Air tube
. W	hich of the following	sources of protein is	12.		rganism body rganism shou		nlined, the habit
di	fferent from others	2			Land	(b)	Water
(a) Peas			. ,	Desert	(d)	Mountain
(b) Gram		13	• •	most colourful		
(c)) Soyabeans				Stamen	(b)	
(d) Cottage cheese (pa	ineer)		• •	Petals	(d)	Pistil
	hich of the followi	14.	• •	ophytes are pla			
fe	atures would you obs	5	'''		Deserts	and which	
(a	,			. ,	Sea		
(b		•		. ,	Ponds		
(c)				(-)	Marshes		
) Reticulate venation	-	15.	. ,		ntations	is not shown by
	•	g is not the primary			iel for living in	-	
	Inction of stem?			(a)	Has a hump of	n its back	ζ.
(a		ter			Passes scanty		
(b		-1			Perspires a lot		
(c)					The sole of fee		rt of pads.
(d	,		16.		develops from		•
. Al as		reen plants are called	_		Ovary		Ovule
(a		(b) Heterotrophs			Anther	(d)	Pollen grains.
) Herbivores	(d) Carnivores					5
	urd is formed by the						
) Fungus	(b) Algae					
(C	,	(d) Protozoa					
	nake do not have	(b) Tasth					
) Tongue	(b) Teeth					
(c) Mouth	(d) Tail					

GREEKS CLASSES IIT FOUNDATION

CLASS - 6

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ANSWER KEY

MENTAL ABILITY		MATHEMATICS				PHYSICS & CHEMISTRY				BIOLOGY	
. 1.	С	1.	D	21.	D	1.	В	21.	С	1.	D
2.	D	2.	В	22.	D	2.	А	22.	А	2.	D
3.	В	3.	С	23.	В	3.	D	23.	D	3.	А
4.	А	4.	В	24.	С	4.	С	24.	С	4.	В
5.	В	5.	В	25.	В	5.	D	25.	В	5.	В
6.	С	6.	D	26.	А	6.	А	26.	С	6.	С
7.	D	7.	С	27.	А	7.	С	27.	D	7.	В
8.	А	8.	В	28.	В	8.	D	28.	С	8.	D
9.	С	9.	А	29.	С	9.	А	29.	С	9.	D
10.	А	10.	В	30.	С	10.	D	30.	D	10.	С
11.	В	11.	С			11.	А	31.	В	11.	С
12.	С	12.	С			12.	D	32.	D	12.	В
13.	С	13.	С			13.	В	33.	С	13.	С
14.	С	14.	D			14.	А	34.	А	14.	А
15.	D	15.	А			15.	С			15.	С
16.	С	16.	С			16.	D			16.	В
17.	D	17.	А			17.	А				
18.	D	18.	D			18.	В				
19.	С	19.	А			19.	В				
20.	C	20.	В			20.	С				

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۶	2 Year Extensive Classroom Coaching for 11 $^{\mbox{th}}$ Class.	۶	1 Year Compact Classroom Coaching for 12 $^{\mbox{th}}$ Class
۶	1 Year Weekend Batch for 12 th Class Students	۶	1 Year Repeater Batch for 12 th Pass Students
	2 Year Weekend Batch for 11 th Class Students	>	Crash Course for JEE Main/AIPMT - 2017