

LOYOLA ACADEMY OF EXCELLENCE

MODEL QUESTION PAPER



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Section 1: English

1.	There are types of cars to choose from.		6.	Choose the correct word fill up the blank:	d from the homophones to	
	(Fill up the blank with a suitable determiner from				I the truth.	
	the options)				(A) know	(B) no
	(A) much	(B)	many		(C) now	(D) none of the above
2	(C) any	(D)	most	7.	Which of the following	words is not a compound
Ζ.	Choose the correct form of the be verb from the				(D) 1 (I	
	The second set of the black.			(A) firefly	(B) butterfly	
	the number of students in my class			(C) blue berry	(D) happiness	
	(A) are	(B)	is	8.	Find the word with a su opposite of the word fro	uitable prefix to form the m the options: Balance
	(C) am	(D)	be		(A) non-balance	(B) disbalance
3.	Choose the correct prep to fill up the blank:	ositi	on from the options		(C) imbalance	(D) unbalance
	We have been studying in this school		9.	The expansion for the acronym NASA is (Choose the correct option to fill up the blank)		
	(A) on	(\mathbf{R})	to		(A) National Air and S	pace Association
	(C) for	(D)	from		(B) National Aeronaut Administration	tics and Space
4.	Choose the correct pror fill up the blank:	ioun	from the options to		(C) National All Space	Administration
	Raju is helping classmates in preparing for the test.		10.	Identify the part of the se	entence that has an error:	
	(A) her	(B)	his		This sentence is / so diff	icult that /
	(C) their	(D)	its		(A)	(B)
5.	Choose the correct adjective from the options to fill up the blank:			I can't able to understar	nd it. / No error	
	My school is at distance from my home			(C)	(D)	
	(A) walkable	(B)	walky			
	(C) walkful	(D)	walking			

Section 2: **Mathematics**

- 11. An elevator descends into a mine shaft at the rate 16. A cow is placed for grazing inside a square field of 6 m per minute. If the descent starts from 19 m above ground level, how long will it take to reach -107 m?
 - (A) 21 minutes (B) 18 minutes
 - (D) 27 minutes (C) 14 minutes
- 12. In a class of 28 students, $\frac{1}{7}$ of the students like English classes the most, $\frac{5}{14}$ like Science classes the most and the remaining students like Mathematics classes the most. How many students like Mathematics classes the most?
 - (A) 4 (B) 10
 - (C) 14 (D) 24
- 13. Find the rational number which is $\frac{-3}{11}$ more than $\frac{4}{7}$.
 - (A) $\frac{21}{77}$ (B) $\frac{23}{77}$ (D) $\frac{12}{77}$ (C) $\frac{65}{77}$
- 14. There were 200 men in a fort and they had provisions that could last 30 days. After 10 days, 40 men left the fort. How long will the remaining provisions last if the remaining men consumed them at the same rate?

(A)	20 days	(B)	150 days
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- (C) 37.5 days (D) 25 days
- 15. Arun is *n* years old. His father is 4*n* years old. If the sum of their ages is 50 years, then find Arun's age. () 5 $\langle \mathbf{n} \rangle$ 10

(A)	5	(B)	10
(C)	15	(D)	20

Section 3: Science

21. Assertion: Mercury is used in laboratory thermometers.

Reason: Mercury is silvery in colour and is attractive in appearance.

- (A) Both Assertion and Reason are true and Reason is the correct explanation of Assertion.
- (B) Both Assertion and Reason are true and Reason is NOT the correct explanation of Assertion

of side 18 m and is tethered to one corner by a rope 7 m long. Find the area of the field over which the cow cannot graze.

((\mathbf{A})	$280\mathrm{m}^2$	(B)	$324\mathrm{m}^2$
	1 1	/ 200 m		/ 241111

- (C) $285.5 \,\mathrm{m}^2$ (C) $320 \,\mathrm{m}^2$
- 17. The price of a shirt increased from Rs 700 to Rs 1,064 What is the percentage increase?

(A)	38%	(B)	50%
(C)	42%	(D)	52%

18. Raj needed a loan of Rs 3,80,000 to buy a new car. The bank manager agreed to give the loan at an interest rate of 6% per annum. If the loan was to be paid back after 5years, what amount must be returned to the bank?

(A)	Rs 4,94,000	(B)	Rs 2,66,000
(C)	Rs 5,08,526	(D)	Rs 1,14,000

19. By selling a chair for Rs 720, a man gains 20%. At what price must he sell it in order to gain 25%?

(A)	850	(B)	825
(C)	800	(D)	750

20. The length of a rectangular field is three times its breadth. If the perimeter of the field is 256 m, find its area.

(A)	$3000\mathrm{m}^2$	(B	$3072\mathrm{m}^2$
(C)	$4052\mathrm{m}^2$	(D)	$4000\mathrm{m}^2$

- (C) Assertion is true but Reason is false
- (D) Assertion is false but Reason is true
- 22. Distance travelled is always.....than displacement.
 - (A) Greater
 - (B) Greater than or equal to
 - (C) Less
 - (D) Less than or equal to

- brought near each other.
 - (A) They attract each other.
 - (B) They repel each other.
 - (C) They neither attract nor repel each other.
 - (D) They generate spark when brought closer.
- 24. March 22nd of every year is celebrated as
 - (A) World Environment Day
 - (B) World Zoo Day
 - (C) World Water Day
 - (D) World Chemistry Day
- 25. The correct match of elements in column A with their types in column B are

Column B

Column A

- (i) Non metal (a) Neon
- (b) Carbon (ii) Metalloid
- (c) Magnesium (iii) Noble gas
- (d) Silicon (iv) Metal
- (A) (a)-(iii), (b)-(i) (c)-(iv), (d)-(ii)
- (B) (a)-(iv), (b)-(ii), (c)-(i), (d)-(iii)
- (C) (a)-(i), (b)-(ii), (c)-(iii), (d)-(iv)
- (D) (a)-(iv), (b)-(iii), (c)-(ii), (d)-(i)
- 26. Which one of the following pairs of elements have the same number of neutrons?
 - (A) ${}_{5}B^{11}$ and ${}_{6}C^{12}$ (B) $_{4}Be^{9}$ and $_{7}N^{14}$ (B) ${}_{16}S^{32}$ and ${}_{18}Ar^{38}$ (D) ${}_{12}Mg^{24}$ and ${}_{15}P^{31}$

- 23. Two plastic combs rubbed against dry hair are 27. Which one of the following is usually developing in our body against disease?
 - (A) nothing will be developing in our body
 - (B) antipyretic substances will be developing
 - (C) antibiotics will be developing
 - (D) antibody will be developing.
 - 28. Usually cows keep on chewing when they are not eating. What is the reason for it?
 - (A) Already eaten food is brought back to mouth and is being chewed.
 - (B) It is simply an action of cows without any food in the mouth.
 - (C) They keep the food in their mouth long time and chew it.
 - (D) Both (A) and (C).

29. Find out true statement/s from the following.

- Euglena is an animal i.
- Euglena is a plant ii.
- iii. Euglena is neither animal nor plant
- iv. Euglena acts as plant and animals.
- (A) i and ii only (B) ii and iii only
- (C) iv only (D) i, ii and iii only.
- 30. One organism is made up of one cell but in the cell no nucleus whereas the other cell has nucleus. What are they?
 - (A) Non living and living cells
 - (B) Living and nonliving cells
 - (C) Bacterium and virus
 - (D) Prokaryote and eukaryote

Section 4: Logical Reasoning

31. The missing number in the sequence: 24, 12, 36, 18, 54,?

(A)	72	(B)	162
(\mathbf{C})	27		27

- (C) 37 (D) 27
- 32. Code for 'MATHS' is 'LZSGR', select code for 'SCIENCE'

(A) QAGCLAB	(B)	RBDHBMD
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(C) TDJFODF (D) RBHDMBD 33. Choose the Venn diagram that best illustrates the relationship among the following classes from the five given diagrams A, B, C, D and E:



(C) D (D) C 34. Two positions of the same die are given, which of the following numbers will be opposite to 5?



- (C) 6 (D) 1
- 35. Three brothers live in a flat in Bombay. Ravi leaves home at 8 a.m. and returns at 6 p.m. Kumar leaves home at 10.a.m. and returns home at 11 p.m. and Ganesh leaves at 7 p.m., and returns at 6 a.m. During which period all the three brothers 38. may meet together at home?
 - (A) 6.7 p.m. (B) 11.1 p.m.
 - (C) 6.8a.m. (D) 8.10a.m.
- 36. Find the figure from (A), (B), (C) and (D) which would continue the series of four figures P, Q, R and S.





37. If we arrange the alphabets I, Y, T, X, U, S, Q, A,V, Z in descending order then, the number of letters between V and I is

(A)	2	(B)	5
(C)	3	(D)	4

TV: UW ::	:
(A) CD: YX	(B) PR:AC

(C) AB: PQ (D) DF: GH

39. A person moves North, then turns to his right and then again right and then finally go to left. In which direction is he moving now?

(A)	East	(B)	South
(C)	West	(D)	North

40. Pick the odd man in the series:

1, 4, 27, 16, 25, 36, 343

(A)	25	(B)	27
(C)	343	(D)	36

Section 5: General Knowledge

- 41. Which two countries' National Anthems were 44. The famous dish 'Pizza' originated from written by the same author?
 - (A) India and Bangladesh
 - (B) Nepal and Bhutan
 - (C) India and Pakistan
 - (D) Cambodia and Vietnam
- 42. When was the modern Olympic Games started?

(A)	1776	(B)	1813

- (C) 1896 (D) 19141
- 43. Find out the country from the following clues: Petronas Tower, Ringitt, Penanga.
 - (A) Thailand (B) Indonesia
 - (C) Myanmar (D) Malaysia

- (A) France (B) Italy
- (C) Germany (D) Japan
- 45. The official mascot of 2020 Olympic Games was
 - (A) Hodori (B) Soohorong
 - (C) Leopard (D) Miraitowa
- 46. Hikat is the folk dance of.
 - (A) Himachal Pradesh
 - (B) Arunachal Pradesh
 - (C) Jammuand Kashmir
 - (D) Manipur

47. 'Tom Sawyer' was written by _____.

- (A) Ernest Hemming way
- (B) Henry James
- (C) Mark Twain
- (D) Harper Lee
- 48. Iama Scottish doctor. I was the first touse chloroform which makes a personun conscious be fore surgery. Who am I?
 - (A) JamesYoungSimpson
 - (B) MathewBraille
 - (C) GilbertBlac
 - (D) BenjaminBell
- 49. Who is the present Chief of Air Staff?
 - (A) RKS Bhadauria
 - (B) Manoj Pandya
 - (C) Vivek Ram Chaudhari
 - (D) Anil Chauhan
- 50. The Reusable Launch Vehicle (RLV) named _____was successfully test launched by ISRO on June 2024.
 - (A) Agro
 - (B) Pushpak
 - (C) Arjun
 - (D) Aditya

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