CADET COLLEGE PETARO

NEW ADMISSION TEST – ENGLISH SYLLABUS OUTLINE 2027

Admission to Class VIII

- Reading Comprehension
- The Parts of Speech
- Synonyms
- Antonyms
- Translation
- Vocabulary
- Active and Passive Voice
- Narration
- Conditional Sentences
- Tenses
- Articles
- Letter Writing
- Application Writing
- Email Writing
- Paragraph Writing
- Essay Writing
- Dialogue Writing

CADET COLLEGE PETARO

NEW ADMISSION TEST – ENGLISH MODEL PAPER 2027

Admission to Class VIII

Max. Marks 55

NOTE: ATTEMPT ALL QUESTIONS.

Q. 1: Choose the correct option: *(15 × 2 = 30 Marks)*

i. In the sentence, *"The children cleaned the classroom by themselves,"* the word *themselves* is a/an:

a) Possessive Pronoun b) Reflexive Pronoun c) Demonstrative Pronoun d) Relative Pronoun

ii. Select the correct example of a First Conditional sentence:

a) If it rains tomorrow, we will postpone the match.
b) If I were you, I would take the advice.
c) If she studied hard, she passed the exam.
d) If they had left earlier, they would have caught the train.

iii. Convert the noun *"harm"* into its corresponding adjective form:

a) Harmed b) Harmfulness c) Harmful d) Harmlessly

iv. Identify the sentence with correct article usage:

a) Indus River is the longest river in Pakistan.
b) The Indus River is a longest river in Pakistan.
c) The Indus River is the longest river in Pakistan.
d) An Indus River is the longest river in Pakistan.

v. Ali was tired after the long campaign against pollution, ___ he was very happy with the results.

a) and b) but c) because d) so

vi. A beautiful painted vase was presented to Saima by Amna.

a) Saima presented a beautiful painted vase to Amna.
b) Amna presented a beautiful painted vase to Saima.
c) Amna was presenting a beautiful painted vase to Saima.
d) Saima receives a beautiful painted vase from Amna.

vii. Mr. Zaman has been serving as a teacher in this school _____ 2015.

a) for b) from c) since d) during

viii. The teacher said, "Please clean the blackboard before leaving, Meena."

a) The teacher ordered Meena to clean the blackboard before leaving.
b) The teacher asked Meena to clean the blackboard before leaving.
c) The teacher told Meena that she must clean the blackboard.
d) The teacher requested Meena for cleaning the blackboard.

ix. The noun form of the verb *"decide"* is:

a) Decisiveness b) Decidedly c) Decision d) Deciding

x. Choose the correctly punctuated sentence:

a) She listed her daily tasks: studying, practicing sports, and reading books.

b) She listed her daily tasks studying: practicing sports: and reading books.
c) She listed: her daily tasks studying, practicing sports, and reading books.
d) She listed her daily tasks, studying: practicing sports, and reading books.

xi. Can you please pass me _____ salt to add to the soup?

a) A pinch of b) ten pages of c) a tankful of d) a slice of

xii. In the sentence *"He rarely misses his morning exercise,"* the word *rarely* functions as a/an:

a) Adjective b) Noun c) Adverb of frequency d) Preposition

xiii. By the time the guests arrive, we _____ all the arrangements.

a) Will finish b) will have finished c) had finished d) finished

xiv. What is the plural form of "*criterion"***?**

a) Criterions b) Criteria c) Criterias d) Criterion

xv. Identify the grammatically correct sentence:

a) Neither the manager nor his assistants was available.
b) Neither the manager nor his assistants were available.
c) Neither the manager nor his assistants is available.
d) Neither the manager nor his assistants are available.

Q. 2: Write an essay (250-300 words) on any ONE of the following topics: (10)

(a) Artificial Intelligence and Digital Learning. (b) The Value of Discipline in life

(c) A Visit to an Historical Place (d) Impact of Social Media on Teenagers

_____
_____
_____
_____
_____
_____
_____

Q.3: Write an application to the Principal of your school for start of a new students' hobby club. (10)

_____
_____
_____
_____
_____
_____
_____
_____

_____

_____

Q.4: Write a dialogue between two classmates, Zubair and Saleem, discussing how young students can raise awareness about preventing water pollution and keeping their neighborhood clean. (05)

_____

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***********THE END**********

CADET COLLEGE PETARO
NEW ADMISSION TEST –ISLAMIAT SYLLABUS OUTLINE 2027

Admission to Class VIII

CHAPTER 1: THE HOLY QURAN

A) Recitation of the Holy Quran
Tajweed rules, importance of recitation
B) Memorization of the Holy Quran
Surah Al-Aadiyat (100)
Surah Al-Takasur (102)
Surah Al-Humazah (104)
C) Memorization and Translation
Translation and explanation of above Surahs
Central theme: Love of wealth, backbiting, accountability

CHAPTER 2: BELIEFS AND WORSHIPS

A) Beliefs
1. Belief in the Hereafter (Aakhirat) and its role in Personality Development
Concept of Day of Judgement, Paradise, Hell
How belief in Aakhirat makes character better
Accountability
B) Worships
Fasting (Roza)
Types of fasting, conditions, importance, Ramazan
Social and moral benefits
Hajj and its Globalization
Arkan e Hajj, Wajibats, Importance
Hajj as International Muslim Unity (Ijtima)

CHAPTER 3: SEERAH TAYYIBAH (Life of Prophet SAW)

1. Great Moral Character (Azim Akhlaq)
2. Patience and Forbearance (Sabr o Tahammul)
3. Sincerity and Piety (Ikhlas o Taqwa)
4. Justice and Benevolence (Adl o Ehsan)
5. Good Social Life (Behtreen Muashrati Zindagi)
6. Speaking Style of Hazrat Muhammad (SAW) Khatam un Nabiyeen
How Prophet SAW used to talk, politeness, truth
7. Domestic Life (Gharelu Zindagi)
Life as husband, father, family head

CHAPTER 4: MORALS AND MANNERS

1. Commanding the good and forbidding the evil (Amr Bil Maroof Wa Nahi Anil Munkar)
2. Lawful Earning (Halal Earning / Rizq e Halal)
3. Honesty in Business (Tijarat me Sachchai)

CADET COLLEGE PETARO

NEW ADMISSION TEST –ISLAMIAT MODEL PAPER 2027

Admission to Class VIII

1. How many main pillars (Arkan) of Hajj are there?

A) 3 B) 4 C) 5 D) 6

2. What is the Nisab of gold for Zakat?

A) 7.5 Tola B) 10 Tola C) 52.5 Tola D) 5 Tola

3. When did Hijrat-e-Madina take place?

A) 620 AD B) 622 AD C) 624 AD D) 630 AD

4. Why did Muslims suffer loss in Ghazwa-e-Uhud?

A) Archers left their position B) Hypocrisy C) Small number D) Less weapons

5. Where was Khutba Hajjat-ul-Wida delivered?

A) Masjid-e-Nabvi B) Plain of Arafat C) Masjid Al-Haram D) Cave of Hira

6. How many Masarif of Zakat are there?

A) 6 B) 7 C) 8 D) 9

7. How long was the Khilafat of Hazrat Abu Bakar (RA)?

A) 2 Years 3 Months B) 10 Years C) 12 Years D) 4 Years

8. What does Huqooq-ul-Ibad mean?

A) Rights of Allah B) Rights of people C) Rights of Angels D) Rights of parents

9. Fasting in Ramadan is:

A) Sunnah B) Wajib C) Farz D) Mustahab

10. Is Surah Al-Asr Makki or Madni?

A) Makki B) Madni C) Both D) None

CADET COLLEGE PETARO
NEW ADMISSION TEST –SINDHI SYLLABUS OUTLINE 2027

Admission to Class VIII

1. گھڻ چونڊائي سوال
   1. گرامر موجب لفظ انسان، پينگھو، معلوم ٿيندا،

(الف) اسم عام (ب) اسم خاص (ج) ضمير (د) ضمير مشترڪ

   2. بيدار جي معنيٰ آهي،

(الف) ساڃاهه (ب) سڃاڻپ (ج) سجاڳ (د) شعور

   3. اهو عالم جيڪو قرآن ۽ حديث مان مسئلن کي سمجهائي سگهي ان کي چئبو آهي،

(الف) اجتهاد (ب) جهاد (ج) مجتهد (د) پرهيزگار

2. هيٺين مان ڪنهن به هڪ تي مَضمون لکو.

”شهيد هوش محمد شيدي“
”هوائي جهاز جي ايجاد“
”اســـان جـــــو ڳـــــوٺ“
”شاه عبداللطيف ڀٽائي رح“

3. هيٺين مان ڪنهن به هڪ تي درخواست لکو.

پنهنجي اسڪول جي هيڊ ماستر صاحب کي ٽن ڏينهن جي موڪل لاءِ درخواست لکو.
پنهنجي دوست کي خط لکي کيس پٽ شاه جو ميلو گھمڻ جي دعوت ڏيو.

CADET COLLEGE PETARO
NEW ADMISSION TEST –SINDHI MODEL PAPER 2027

Admission to Class VIII

سوال 1. صحيح جوابن جي چونڊ ڪريو. **(30)**

1. قرآن شريف جي قائدن يا اسلامي قانونن کي چئبو آهي.

(الف) شريعت (ب) خلافت (ج) وحدت (د) طريقت

2. هوشو شيدي جنگ ۾ شهيد ٿيو.

(الف) مياڻي جي (ب) امام ڳڙهه جي (ج) دبي جي (د) ڪرڙي جي

3. پاڪستان جي نامياري سائنسدان ڊاڪٽر کي نوبل انعام مليو.

(الف) عبدالقدير (ب) عبدالڪلام (ج) عبدالسلام (د) ثمرمبارڪ

4. اسٽيٽ بينڪ جو بنياد عيسوي سن ۾ وڌو ويو.

(الف) 1947 (ب) 1948 (ج) 1949 (د) 1950

5. سمنڊ ۾ پاڻي پوڻ سان ٻيلا پيدا ٿين ٿا.

(الف) تمر جا (ب) ڪِرڙ جا (ج) بٻُر جا (د) نِم جا

6. اسان جي قومي ايئر لائين جو نالو آهي.

(الف) ايئر بليو (ب) انڊس ايئر (ج) شاهين ايئرلائين (د) پي آئي اي

7. موجد جي معني آهي.

(الف) ايجاد ڪندڙ (ب) تعمير ڪندڙ (ج) موجود رهندڙ (د) اختيار ڪندڙ

8. اهو لفظ جيڪو وقت، جاءِ، ريت، قدر، هاڪار ۽ ناڪار ڏيکاري ان کي چئبو آهي.

(الف) ضمير (ب) زمان (ج) ظرف (د) صفت

9. خوشحالي لفظ جو ضد آهي.

(الف) شاهوڪاري (ب) بدحالي (ج) اميري (د) غريبي

10.امام ابو حنيفه کي دفن ڪيو ويو.

(الف) بغداد ۾ (ب) دمشق ۾ (ج) مديني ۾ (د) مڪي ۾

11.ڪونڙي بئراج جي ڊيگھ اٽڪل ميٽر آهي.

(الف) هڪ هزار (ب) ٻه هزار (ج) ڏھ هزار (د) پنج سئو

12.پينگھو لفظ گرامر موجب آهي

(الف) اسم خاص (ب) ضمير (ج) اسم عام (د) صفت

13. ۾ ، تي ۽ کي گرامر موجب آهن.

(الف) حرف جر (ب) حرف جملو (ج) حرف ندا (د) ظرف

14. رئيس غلام محمد پرڳڙي جو تعلق شهر جي ڳوٺ ڊينگاڻ سان هو.

(الف) عمر ڪوٽ (ب) سانگھڙ (ج) ميرپور بٹورو (د) ميرپور خاص

15. ڪاوڙ ڏيندڙ ڳالھ تي ڪاوڙ نہ ڪرڻ کي چئبو آهي.

(الف) سھپ (ب) غصو (ج) پريشاني (د) خصلت

سوال 2. هيٹين مان ڪنهن بہ هڪ تي مضمون لکو. (15)

(الف) همدري (ب) حڪيم شهيد محمد سعيد (ج) صحت جا دشمن

سوال 3. (الف) اسم عام ۽ اسم خاص کي ڌار ڪري لکو. (05)

انسان، پينگھو، بدر، معلم، چينُ

سوال 3. (ب) حرف ندا جا کي بہ ٽي لفظ جملن ۾ ڪم آڻيو. (05)

********** الله **********

واهي**********

CADET COLLEGE PETARO

NEW ADMISSION TEST –MATHEMATICS SYLLABUS OUTLINE 2027

Admission to Class VIII

Test Format	Total MCQs	Total Marks	Time
MCQs	40	80	40 Minutes

I. Rational Numbers

II. Exponents

III. Financial Arithmetic

IV. Algebraic Expressions

V. Linear Equations

VI. Fundamentals of Geometry

VII. Circumference, Area and Volume

CADET COLLEGE PETARO

NEW ADMISSION TEST –MATHEMATICS MODEL PAPER 2027

Admission to Class VIII

Marks: 80	**Subject: Mathematics**	**Time:40 Minutes**

Q1. Choose the correct options.

1. **Salman purchased a mobile set for Rs. 15000. he sold it for Rs.12000 then loss will be _____%**
   a) 15 **b) 20** **c)25** **d) 30**
2. **Two angles are said to be ……. angles if their sum is 90^0**
   a) Supplementary **b) Complementary** **c)Adjacent** **d) Similar**
3. **2.712 is a/an _____ number.**
   a) Irrational **b) Rational** **c) Odd** **d) Prime**
4. **Reciprocal of $-\frac{3}{5}$ is _____.**
   a) $\frac{3}{5}$ **b) $-\frac{5}{3}$** **c) $\frac{5}{3}$** **d) none**
5. **Area of rectangle =_____cm^2 ,when length = 6cm and breadth= 2.5cm**
   a) 15) **b) 15.5** **c)10** **d) none**
6. **The LCM of 12 and 9 is :**
   a) 3 **(b) 36** **(c) 27** **(d) none**
7. **$\frac{4}{3} \div \frac{2}{15} =$ _____.**
   a)2 **b) 5** **c)10** **d) 20**
8. **A triangle has _____ elements.**
   a)2 **b) 3** **c) 4** **d) 6**
9. **$(+5) \div (-5) =$_____.**
   a) 0 **b) 1** **c)-1** **d) 2**
10. **In $-4y^3$, the co-efficient of y ----------**
    a)3 **b) -3** **c) 1** **d) -4**
11. **The exponent of $(5)^{-7}$ is _____.**
    a) -7 **b) 5** **c) 7** **d) none**
12. **$\frac{14}{3}$ = _____.**
    a) $3\frac{4}{3}$ **b) $4\frac{3}{4}$** **c) $4\frac{2}{3}$** **d) none**
13. **The sum of the angles of a triangle is = _____.**
    a) $180°$ **b) $90°$** **c) $45°$** **d) $60°$**
14. **$(2a + 7b) \times 4c$= _____.**
    a) $8ac + 7b$ **b) $8ac + 7bc$** **c) $8ac + 28bc$** **d) $2ac + 28bc$**
15. **$\frac{5}{2} - \frac{3}{2}$ = _____.**
    a) 1 **b) 2** **c) $\frac{3}{2}$** **d) $\frac{5}{2}$**

16. The HCF of 12 and 30 is :

a) 2 **b) 4** **c) 6** **d) none**

17. $a^4 \times a^3$**=_____.**

a) a^7 **b)** a^{12} **c) a** **d) none**

18. The absolute value of $|-2|$ **is**

a)-2 **b)** ± 2 **c)**$-(-2)$ **d) none**

19. 1 is a/an _____ number

a) Even **b) Prime** **c) Composite** **d) none**

20. The factors of $a^2 - 9$ **are _____**

a) $(a+3)(a+4)$ **b)** $(a-2)(a-3)$ **(c)** $(a+3)(a-3)$ **d) none**

21. _____ is a rational number.

a) $\sqrt{2}$ **b)** π **c) 3/5** **d)** $\sqrt{3}$

22. The reciprocal of −4/7 is_____.

a) 4/7 **b) −7/4** **c) 7/ 3** **d) −4/7**

23. The additive inverse of 5/9 is_____.

a) 9/5 **b) 5/9** **c) −5/9** **d) −9/5**

24. Which is greater _____.

a) −2/3 **b) −3/4** **c) −5/6** **d) −7/8**

25. The result of 2/3 + 1/6 is _____.

a) ½ **b) 2/3** **c) 5/6** **d) 1**

26. The product of (−2/5) × (15/4) is _____,

a) −3/2 **b) 3/2** **c) −6/5** **d) 6/5**

27. The product of $9a$ **and** $6b$ **is:**

a)9ab **b)15ab** **c)96ab** **d)54ab**

28. $x^2 - y^2$

a) $(x-y)$ **b)**$(x-y)(x+y)$ **c)**$(x-y)^2$ **d)**

29. $x^2 - x$

a)x **b)**$x(x-1)$ **c)**x^2 **d)** $x - x^2$

30. Every Liner equation has _____ solution (s).

a) one **b)two** **c)three** **d)four**

31. The solution of $6x + 1 = 7$ **is _____.**

a) $x = 0$ **b)**$x = 1$ **c)**$x = 2$ **d)**$x = 3$

32. Which one of the following is true?

a)$\frac{d}{2r}$ **b)**$c = 2d$ **c)**$\pi = c$ **d)**$d = 2r$

33. The area of a circle is _____ sq. cm when its radius is 1 cm.

a)22/7 **b)7/22** **c)1/7** **d)1/22**

34. $x^{10} \div x^4$

a)x^7 **b)**x^2 **c)**x^6 **d)** x^4

35. $(y^2)^7$

a)y^2 **b)**y^7 **c)**y^9 **d)**y^{14}

36. Two angles are said to be adjacent if they have a common_____ and arm.

a)vertex **b)direction** **c)degree** **d)point**

37. A linear equation contains variables of degree _____ only.

a)two **b)one** **c)three** **)four**

38. The rate of zakat is _____.

a)2.5% **b) 1.5%** **c) 3.5%** **d) 4.5%**

39. **Cost Price − Selling Price = _____.**

a)loss **b)profit** **c)cp** **d)sp**

40. $(-a)^n$ **is positive if n is _____.**

a)even **b)odd** **c)integer** **d)natural**

CADET COLLEGE PETARO

NEW ADMISSION TEST –IQ SYLLABUS OUTLINE 2027

Admission to Class VIII

1. Verbal Reasoning

This section assesses the student's ability to understand, analyze, and solve problems using language-based concepts and logic.

Vocabulary & Word Relations: Synonyms, antonyms, analogies, and odd-one-out word identification.

Sentence Completion Fill-in-the-blanks using context clues, grammar rules, and appropriate vocabulary.

Coding and Decoding: Letter shifting, word substitution, and deciphering alphanumeric codes.

Blood Relations & Direction Sense: Solving multi-step family tree puzzles and directional tracking problems.

Critical Reading & Logic: Identifying underlying assumptions, drawing logical conclusions, and statement-based reasoning.

2. Numerical Reasoning

This section evaluates quantitative logic, mathematical patterns, and problem-solving skills appropriate for secondary level.

Number Series & Sequences: Identifying missing numbers, arithmetic/geometric progressions, and complex numerical patterns.

Arithmetical Reasoning: Word problems involving percentages, ratios, proportions, age calculations, and speed-distance-time.

Mathematical Operations & Puzzles: Symbol substitution, equation balancing, and matrix number puzzles.

Data Interpretation: Basic analysis and inference from tables, bar charts, and pie charts.

3. Logical Reasoning

This section measures deductive and inductive reasoning, problem-solving frameworks, and critical thinking.

Syllogisms: Analyzing statements to determine valid conclusions.

Alphabet & Alphanumeric Series: Spotting patterns and gaps in mixed letter-number sequences.

Venn Diagrams: Logical categorization, intersection of sets, and relational data problems.

Seating Arrangements & Puzzle Tests Linear, circular, and tabular arrangement logic.

Cause and Effect: Identifying direct relationships between given statements or events.

4. Abstract / Pattern Recognition

This section tests non-verbal logic, spatial awareness, and visual pattern recognition through shapes and figures.

Figure Matrix & Analogies: Identifying missing tiles or matching visual relationships based on shape transformations.

Series & Progression (Visual): Determining the next step in a sequence of rotating, scaling, or morphing geometric figures.

Paper Folding & Cutting: Visualizing 2D flat patterns folded into 3D shapes or unfolding punctured papers.

Mirror and Water Images: Recognizing spatial inversions and reflections of geometric shapes and letters.

Embedded & Hidden Figures: Locating specific shapes concealed within complex abstract designs.

CADET COLLEGE PETARO

NEW ADMISSION TEST –IQ MODEL PAPER 2027

Admission to Class VIII

Q No.1 **Which side of the cup does have its handle?**

A) Left side B) Right side C) Both sides D) Outside

Q No.2 **If Sadia runs faster than Saima, Maria runs faster than Sadia and Anam runs faster than all. Who is the slowest runner?**

A) Saima B) Sadia C) Anam D) Maria

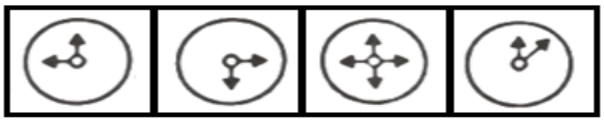
Q No.3 **In which month of the Islamic calendar Prophet Muhammad peace upon him was born?**

A) Ramzan B) Safar C) Rabi-ul-Awwal D) Rabi-us-Sani

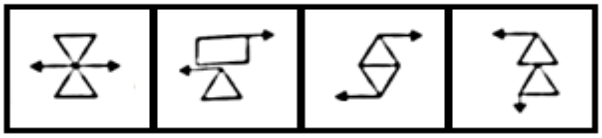
Q No.4 **In the series 9, 18, 27, 36, _____**

A). 55 B). 42 C).45 D). 54

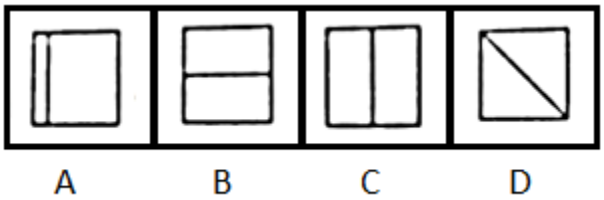
Q No.5 **Which picture is different from the other pictures in the following figure?**



Q No.6 **Which picture is different from the other pictures in the following figure?**



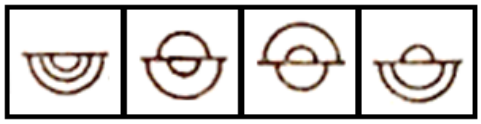
Q No.7 **Which picture is different from the other pictures in the following figure?**



Q No.8 **PROBLEM FIGURES:**

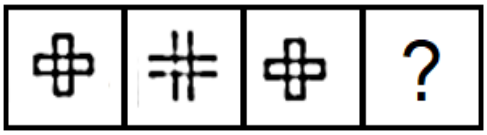


ANSWER FIGURES

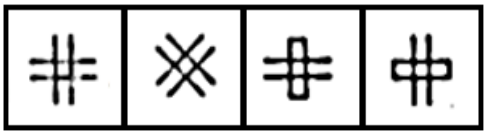


A B C D

Q No.9 **PROBLEM FIGURES:**

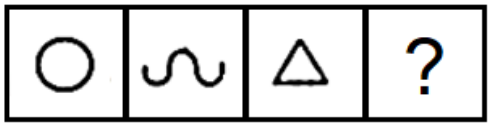


ANSWER FIGURES

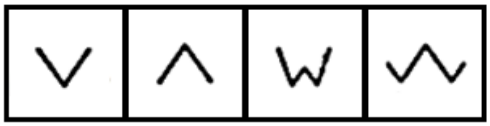


A B C D

Q No.10 **PROBLEM FIGURES:**

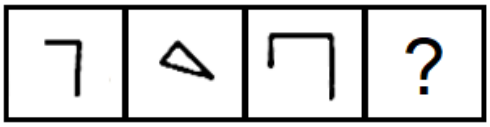


ANSWER FIGURES

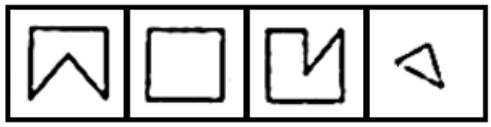


A B C D

Q No.11 **PROBLEM FIGURES:**



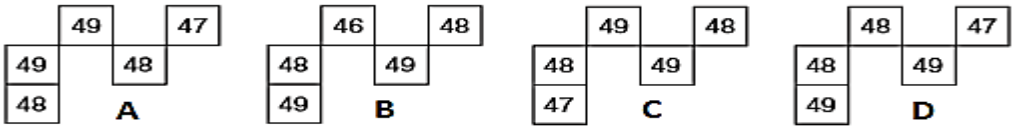
ANSWER FIGURES



A B C D

Q No.12 **Which is the missing section?**

50	51	49	52	48
46	47	45	48	44
49	50		51	
47		46		45
48		47	50	46



Q No.13 **How many minutes are in a full week?**

A). 10080 **B**). 10070 **C**). 12280 **D**). 21280

Q No.14 **What number best completes the analogy: 9:3 as 6:_?**

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

Q No.15 **Choose the one which is different:**

A) Sea B) Rain C) River D) Lake

Q No.16 **Which number should come next in the pattern: 7, 5 , 3 , 1 _____**

A) 9 B) 0 C) -1 D) -2

Q No.17 **9 is to 81 , 13 is to _____**

A) 139 B) 89 C) 169 D) 229

Q No.18 **A boy walked 4 kilometers towards north turned to his left and walked 6 kilometers again turned left and walker 4 kilometers. What is the distance from the starting point to the place where he stopped?**

A) 10 kilometers B) 6 kilometers C) 0 kilometer D) 4 kilometers

Q No.19 **Three normal birds and four normal dogs have how many total legs.**

A) 28 B) 24 C) 22 D) 14

Q No.20 **Which number does not belong in the series …..1– 2 – 5 – 10 – 13 – 26 – 29 – 48**

A) 48 B) 5 C) 26 D) 29

Q No.21 **Which one of these is least like others?**

A) Deer B) Shark C) Lion D) Cow

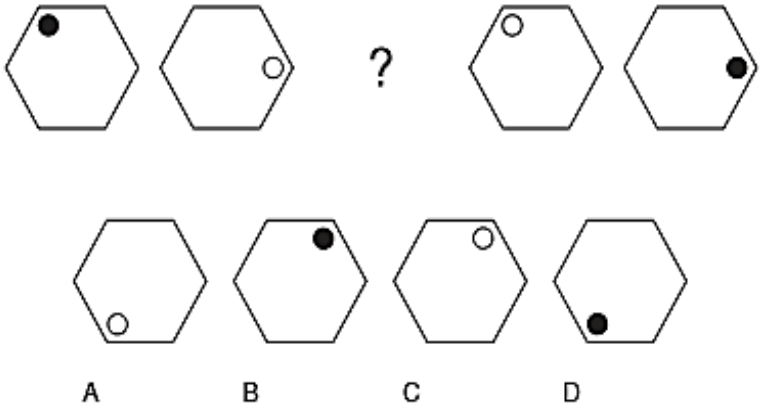
Q No.22 **Complete the series: A, Z, B, Y, C, X, D, -?-**

A) U B) E C) W D) F

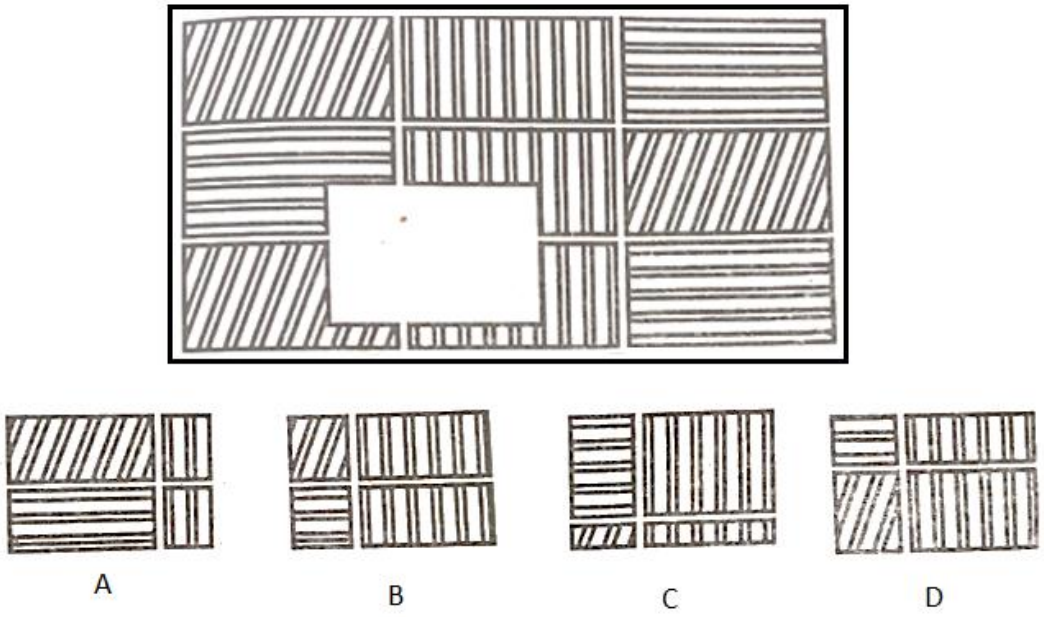
Q No.23 **When light hits anything, it bounces back, this is known as:**

A) Reflection B) Refraction C) Dispersion D) Vibration

Q No.24 **Which figure should replace the question marks?**



Q No.25 **Observe the below figure and identify the missing part.**



THE END

CADET COLLEGE PETARO

NEW ADMISSION TEST –GENERAL SCIENCE SYLLABUS OUTLINE 2027

Admission to Class VIII

- **General Science VII Class Book of Sindh Text Book Board Jamshoro.**

CADET COLLEGE PETARO

NEW ADMISSION TEST –GENERAL SCIENCE MODEL PAPER 2027

Admission to Class VIII

Total Marks: 40

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Multiple Choice Questions (MCQs)

Circle the correct answer. Each question carries 02 marks: [40 Marks]

Q.1 which organ in the human digestive system is mainly responsible for absorbing water from undigested food?

a) Large intestine b) Stomach c) Small intestine d) Liver

Q.2. what is the main gas that humans take in from the air during the process of breathing?

a) Oxygen b) Carbon dioxide c) Nitrogen d) Hydrogen

Q.3. which blood vessels carry oxygen-rich blood away from the heart to all parts of the human body?

a) Arteries b) Veins c) Capillaries d) Vena cava

Q.4. Through which plant part is water mostly absorbed from the soil to support plant transport?

a) Roots b) Leaves c) Flowers d) Stem bark

Q.5. which part of a flowering plant develops into a fruit after fertilization takes place?

a) Ovary b) Anther c) Petal d) Sepal

Q.6. In a food chain consisting of grass, grasshopper, frog, and snake, which organism acts as the primary consumer (herbivore)?

a) Grasshopper b) Frog c) Snake d) Grass

Q.7. which of the following is a mode of heat transfer?

a) Conduction b) Convection c) Radiation d) All of these

Q.8. which of the following is a good conductor of heat?

a) Wood b) Plastic c) Copper d) Rubber

Q.9. Heat transfer in liquids and gases mainly takes place through:

a) Conduction b) Convection c) Radiation d) Reflection

Q.10. which method is commonly used to remove suspended solid impurities from drinking water at home or in water treatment?

a) Filtration b) Condensation c) Freezing d) Evaporation

Q.11. what are the three main subatomic particles that make up the structure of an atom?

a) Protons, neutrons, and electrons
b) Molecules, compounds, and ions
c) Solids, liquids, and gases
d) Nucleus, shell, and orbit

Q.12. what is a physical change?

a) Burning of paper b) Melting of ice c) Rusting of iron d) Cooking of food

Q.13. which of the following is a chemical change?

a) Cutting of paper b) Melting of wax c) Burning of wood d) Freezing of water

Q.14. a refrigerator removes heat from:

a) Its surroundings only
b) Its inside compartment
c) Its electric wire
d) Its outer body only

Q.15. which of the following is a chemical change occurring in the environment?

a) Melting of snow
b) Evaporation of water
c) Photosynthesis in plants
d) Freezing of water

Q.16. which of the following is a hydrocarbon?

a) Water b) Methane c) Carbon dioxide d) Sodium chloride

Q.17. Why are fertilizers used in agriculture?

a) To increase soil fertility
b) To reduce plant growth
c) To remove water from soil
d) To stop seed germination

Q.18. Hydrogenation is the process of adding which element to an unsaturated compound?

a) Oxygen b) Nitrogen c) Hydrogen d) Chlorine

Q.19. which of the following is commonly used to make plastic bags?

a) Wood b) Polyethylene c) Glass d) Cotton

Q.20. Heat always flows from:

a) Cold body to hot body
b) Hot body to cold body
c) Small body to large body
d) Cold body to cold body

XXXX……XXXXX