

Cadet College Muzaffarabad
General Science
Class 8th Science Entry Test
Time: 60 min. Total Marks: 50
Part -1
Objective

50

Note: Attempt all parts of the questions

Q.No1: Tick the correct answer.

(25 x 1 = 25 Marks)



1. The process of transferring water through xylem in plants is called:
 - i. Translocation
 - ii. Transpiration
 - iii. Pollination
 - iv. Fertilization
2. The largest organ in the human digestive system is:
 - i. Stomach
 - ii. Liver
 - iii. Intestine
 - iv. Pancreas
3. The type of ecosystem found in deserts is characterized by:
 - i. High rainfall
 - ii. Dense forests
 - iii. Low rainfall and sparse vegetation
 - iv. Large bodies of water
4. The process of transferring food from one organism to another in an ecosystem is called a:
 - i. Food chain
 - ii. Habitat
 - iii. Pollination
 - iv. Transpiration
5. Which of the following particles is negatively charged?
 - i. Proton
 - ii. Neutron
 - iii. Electron
 - iv. None of the above
6. Which layer of the atmosphere contains the ozone layer?



- i. Troposphere
- ii. Stratosphere
- iii. Mesosphere
- iv. Thermosphere

7. Which of the following is the main cause of acid rain?

- i. Carbon dioxide
- ii. Nitrogen oxide and sulfur dioxide
- iii. Methane
- iv. Oxygen

8. A substance that dissolves in water to form a solution is called a:

- i. Solvent
- ii. Solute
- iii. Precipitate
- iv. Suspension

9. In a chemical reaction, the substance that gains electrons is:

- i. Oxidized
- ii. Reduced
- iii. A reactant
- iv. A catalyst

10. Which of the following units is used to measure force?

- i. Joules
- ii. Newtons
- iii. Amperes
- iv. Volts

11. Heat transfer through direct contact is called:

- i. Convection
- ii. Radiation
- iii. Conduction
- iv. Insulation

12. Which force pulls objects toward the center of the Earth?

- i. Friction
- ii. Magnetism
- iii. Gravity

iv. Tension

13. Which of the following materials would make a good insulator?

- i. Metal
- ii. Glass
- iii. Copper
- iv. Aluminum



14. Columns in a database are called

- i. Records
- ii. Fields
- iii. Freeware
- iv. Adware

15. Input, Output, processing are problem solving

- i. Pyramids
- ii. Elements
- iii. Segments
- iv. None of the above

16. Set is a collection of

- (a) Equal objects
- (b) Same object
- (c) Distinct objects
- (d) All of them

17. $3 \times 3 \times 3 \times 3$ can be written as

- (a) 3^2
- (b) 3^3
- (c) 3^4
- (d) 3^5

18. The number which is divisible by 2 is called

- (a) even number
- (b) odd number
- (c) prime number
- (d) All of them

19. The reduced 3:4 is equivalent to

- (a) 1:2
- (b) 9:16
- (c) 6:8
- (d) 4:6



20. The sum of algebraic expression $x^2 + x^2 + x + x + x$ is

(a) x^2

(c) $2x^2 + x$

(b) $2x^2 + 3x$

(d) $x^2 + 3x$

21. If $\frac{x-2}{3} = 6$, then "x" =

(a) 18

(c) 12

(b) 10

(d) 20

22. The sum of angle of triangle is

(a) 360°

(c) 90°

(b) 180°

(d) 270°

23. Area of rectangle is $48m^2$ and length is $8m$, its width will be

(a) 6m

(c) 10m

(b) 8m

(d) 12m

24. The expression of 3.25% in decimal is

(a) 3.25

(c) 0.0325

(b) 32.5

(d) 0.00325

25. The word statistics is derived from the words:

(a) Latin and Italian

(c) German and French

(b) statistic

(d) (a) & (c)

Q.No2: Fill in the Blanks

(25 x 1 = 25 Marks)

1. The smallest structural and functional unit of life is called a ____.
2. The process of breaking down food into simpler forms is called ____.
3. ____ are the blood vessels that carry blood toward the heart.
4. Capillaries connect ____ and ____.



5. The smallest particle of an element that retains its chemical properties is called a _____.
6. The process by which carbon dioxide traps heat in the atmosphere is known as the _____ effect.
7. A substance that undergoes a chemical reaction and is altered in composition is called a _____.
8. A chemical reaction in which a substance reacts with oxygen is called a _____ reaction.
9. The layer of the atmosphere where weather occurs is the _____.
10. Heat transfer through fluids is called _____.
11. The ability to allow electric current to pass through a material is called _____.
12. The transfer of heat through liquids and gases is called _____.
13. The _____ theory describes the beginning of the universe.
14. Graphical representation of data is called _____.
15. Windows is an example of _____ software.
16. An empty set contains _____ elements.
17. If the number of elements of set "A" is equal to the number of elements of set "B" then "A" and "B" are _____ sets.
18. $a + b = b + a$ is called _____ property over addition.
19. Set of integers is denoted by _____.
20. Selling price – Cost price is called = _____.
21. The word Geometry is the combination of _____ words.
22. Volume of cube is equal to _____.
23. $2 \times (4 \times 7) = (2 \times 4) + (2 \times 7) =$ _____.
24. The equality of two ratio is called _____.
25. Proportion is denoted by symbol _____.

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Class 8th Science Entry Test
Time: 60 min. Total Marks: 50

Part -2
Subjective

Note: Attempt all parts of the question as indicated.

Q.No3: Answer following Questions

1. What is pollination? Name its two types. 4
2. What is the function of the nucleus in a cell? 3

OR

3. What are the main components of an ecosystem? 3
4. Define an atom and list its fundamental particles. 3
5. What is the main cause of water pollution? 4

OR

6. Explain the difference between an element and a compound. 4
7. What is the significance of the pH scale? Provide an example of an acid and a base. 3
8. Define force and give one example from daily life. 4

OR

9. What is the difference between a star and a planet? 4
10. How does the speed of sound differ in air, water, and metal? 3
11. Define RAM? Write its types. 4
12. Differentiate between hardware and software? 2
13. Write in numerals. Eight hundred million, two hundred and sixty-eight thousand, one hundred and ninety-five. 3

OR

14. Hassan Akram has Rs. 567000 in his Bank account. Calculate the amount of Zakat he would have to pay after 1 year. (The rate of Zakat is 2.5%) 3
15. Find the median value of given data 1, 3, 7, 9, 13, 15, 20 2
16. Simplify $\left[2\frac{1}{5} \div \left\{ 1\frac{1}{5} + \left(1\frac{1}{5} \times 3\frac{1}{5} - 3\frac{1}{5} \right) \right\} \times 1\frac{4}{5} \right]$ 5
17. A right-angle triangle measures 5cm by 12cm by 13cm. Use this information to verify Pythagoras theorem. 5

OR



18. The price of LCD is Rs. 35000. If there is a 25% discount on LCD. What is the selling price of LCD? 5
19. Solve 286378×100 2
20. Find $(A \cup B)'$ if $U = \{2, 4, 6, 10, 12, 14\}$, $A = \{2, 6, 10, 12\}$, $B = \{6, 10, 12, 14\}$ 3





کیڈٹ کالج مظفرآباد
اردو پیپر انٹری ٹیسٹ
جماعت : ہشتم
وقت : 60 منٹ

15

سوال 1- درج ذیل میں سے کسی ایک عنوان پر مضمون لکھیں۔

1. کشمیر پاکستان کی شہ رگ ہے
2. میرا محبوب مشغلہ
3. ایک سفر کی داستان
4. پابندی وقت
5. والدین کی اطاعت

سوال 2- درجہ ذیل سوالات کے مختصر جوابات دیں۔

1. "شجر" کا جملہ بنائیں
2. اسم صفت سے کیا مراد ہے؟ ایک مثال دیں۔
3. محاورہ اور روز مرہ کے مابین فرق

سوال 3

1. چھوٹے بھائی کے نام خط لکھیں اور محنت کرنے کی تلقین کریں۔

یا

2. پرنسپل کے نام دو ایام رخصت حاصل کرنے کے لیے درخواست تحریر کریں۔

سوال 4 تشریح کے لیے اشعار:

1. یہ مغرب میں جو بادلوں کی بے باڑ
2. سعادت مند بیٹا جھک گیا فرمانِ باری پر
- بے سونے چاندی کے گویا پہاڑ
- زمین و آسمان حیران تھے اس طاعت گزاری پر

یا

کہانیاں

1. جیسا کرو گے ویسا بھرو گے
2. محنت کا پھل



کیڈٹ کالج مظفرآباد
حصہ دوم (اسلامیات)

جماعت : ہشتم

س 1: مندرجہ ذیل سوالات کے درست جواب کا انتخاب کر کے درست کا نشان لگائیں 10

ا. فرشتوں پر ایمان کا کیا مطلب ہے؟	ان کو دیکھنا	ان کی عبادت کرنا	ان کے وجود کو ماننا	ان کو انسان سمجھنا
ii. ایمان مفصل میں کیا شامل ہے؟	صرف اللہ پر ایمان	رسولوں پر ایمان	آخرت پر ایمان	تمام عقائد پر ایمان
iii. زکوٰۃ کس پر فرض ہے؟	غریب	یتیم	صاحب نصاب	غلام
iv. حضور ﷺ کس شہر میں پیدا ہوئے؟	مدینہ	طائف	مکہ	شام
v. آپ ﷺ کا لقب کیا تھا؟	صادق اور امین	فاتح	خطیب	سردار
vi. حقوق العباد کا مطلب کیا ہے؟	اللہ کے حقوق	بندوں کے حقوق	عبادات	انصاف
vii. فرض نمازوں کی رکعات کتنی ہیں؟	10	12	17	20
viii. والدین کے ساتھ حسن سلوک کیا ہے؟	حقوق اللہ	حقوق العباد	صدقہ	عبادات
ix. خطبہ حجۃ الوداع کہاں دیا گیا؟	غار حرا	میدان عرفات	مدینہ	مزدلفہ
x. روزہ رمضان کے علاوہ کس مہینے میں فرض ہے؟	شوال	محرم	رمضان	کسی اور مہینے میں نہیں

س 3: مندرجہ ذیل سوالات کے مختصر جوابات تحریر کریں۔ 10

- i. آخرت پر ایمان کا کیا مطلب ہے؟
- ii. حج اور عمرہ میں کیا فرق ہے؟
- iii. نماز کے ارکان تحریر کریں۔
- iv. حقوق العباد سے کیا مراد ہے؟
- v. اسلام کے بنیادی عقائد کیا ہیں؟

س 4: تفصیلی سوالات

مندرجہ ذیل میں سے کسی بھی سورت کا ترجمہ تحریر کریں 5

1. سورة الكوثر
2. سورة الفاتحه
3. سورة النصر

س: حضور ﷺ کی حیات طیبہ پر تفصیلی نوٹ لکھیں۔ 5

یا

س: غزوہ بدر کے سیاسی، سماجی اور اخلاقی اثرات اسلامی ریاست پر کیا تھے؟

Cadet College Muzaffarabad

Class 8th Entry Test - 2025

English

Time: 1 Hour | Total Marks: 50



Q1. Write an essay of about (150-200) words on any ONE of the following topics. 15

1. My favorite Personality
2. Kashmir's Natural Beauty
3. My Favorite Book and Its Impact
4. Unforgettable Journey

Q2. (A) Do as directed. Overwriting is not allowed. 10

1. The teacher gave us homework. (Change to passive voice)
2. I have eaten breakfast. (Convert to past perfect tense)
3. Me and my friend goes to the park. (Correct error)
4. He told me that he would attend the meeting. (Change to direct narration)
5. I like reading books, but my sister prefers watching movies. (Underline conjunctions)
6. The student's don't know the answer. (Correct error)
7. I water the plants. (Find Verb)
8. Karachi is a large city. (Find Adjective)
9. The boy walked briskly along the road. (Find Adverb)
10. The police dispersed the mob. (Find Collective Noun)

(B) Write the correct form of verb.

5

1. If it _____ (rain), we will cancel the picnic.
2. They _____ (build) a new school in our town last year.
3. They _____ (announce) the results of the exam yesterday.
4. When I _____ (hear) the news, I was shocked
5. The sun _____ in the east. (rise)

**(C) Change singulars into plurals and plurals into singulars:**

5

1. Scissors
2. Furniture
3. Police
4. Cattle
5. Deer



Q3. Give brief and to the point answers to the questions from the given paragraph. 15

Passage 1

The Quaid-e-Azam Muhammad Ali Jinnah was born on December 25, 1876, in Karachi, which was then a small port city. His father, Jinnahbhai Poonja, was a successful merchant who had moved to Karachi from Gujarat. Jinnah's early education took place in Karachi, after which he traveled to England to study law. He became a barrister in 1896 and began practicing law in Bombay. Jinnah's entry into politics was marked by his joining the Indian National Congress in 1906. However, he soon became disillusioned with the party's policies and joined the Muslim League in 1913. Jinnah's leadership and vision played a pivotal role in the creation of Pakistan in 1947.

Questions:

1. Where was Quaid-e-Azam Muhammad Ali Jinnah born?
2. What was Jinnah's profession before he entered politics?
3. In which year did Jinnah join the Muslim League?
4. What values do you think Jinnah's early life and education instilled in him, which later influenced his leadership?
5. How do you think Jinnah's experience as a barrister helped him in his political career?

OR

**Passage 2**

The Pakistan Monument is a national monument located in Islamabad, Pakistan, which was designed by architect Naeem Pasha and completed in 2007. The monument is shaped like a blooming flower, representing the country's progress and development. The four large petals of the monument are inspired by the four provinces of Pakistan, while the smaller petals represent the country's three territories and the capital city. The monument is surrounded by a large lake, which adds to its beauty and serenity. The Pakistan Monument has become a popular tourist destination, attracting visitors from all over the world.

Questions:

1. Who designed the Pakistan Monument?
2. What is the shape of the Pakistan Monument?
3. What do the four large petals of the monument represent?
4. What message do you think the Pakistan Monument conveys about the country's identity and values?
5. How do you think the monument's design and location contribute to its significance as a national symbol?