

GARRISON CADET COLLEGE KOHAT
ENTRANCE EXAMINATION FOR CLASS 8 – 2019
PAPER: MATHS

Time: 45 Min

Marks: 75

Note: Solve all questions. Use of calculator is not allowed.

- Q.No-1 a. If $U = \{0, \pm 1, \pm 2, \pm 3, \pm 4, \pm 5\}$, (25)
 $A = \{1, 2, 3, 4, 5\}$ and $B = \{-1, -2, -3, -4, -5\}$
 Then find $A' \cup B'$ and $A' \cap B'$
- $U = \{0, \pm 1, \pm 2, \pm 3, \pm 4, \pm 5\}$
 $B = \{-1, -2, -3, -4, -5\}$ $A = \{1, 2, 3, 4, 5\}$
 $A' \cap B'$ $A' \cup B'$
- b. Arrange the following rational numbers in descending order:-
 $\frac{1}{3}$, $\frac{3}{5}$, $\frac{-7}{6}$, 0 , $\frac{2}{7}$
- c. Simplify: $\frac{2^2 x 6^{-4}}{2^{-2} x 4^3}$
- d. Find the square root of 152.7696.
- e. Expand : $(x - 2y)^2$
- Q.No-2 If 16% profit on a mobile set is Rs 832, find its cost price? (10)
- Q.No-3 Factorize:- $-2x^2 + 16xy - 32y^2$ (10)
- Q.No-4 Construct the Parallelogram ABCD where: ABCD (10)
 $m\overline{AB} = 7.7\text{cm}$, $m\overline{BC} = 4.4\text{ cm}$ and $m\angle ABC = 30^\circ$
 (use compass for angle)
- Q.No-5 Age of brother is twice the age of the sister. Three years back age of the (10)
 brother was three times the age of the sister. Find their present ages?
- Q.No-6 Find the capacity of a circular water tank in litres, when the height of the (10)
 of the tank is 420 cm and its diameter is 510 cm.

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Q.No-1 Write an essay of about 150-200 words on any one of the following topics:- (15)

- a. Hard work is the key to success.
- b. National Unity.

Q.No-2 Write a letter to your friend asking him to spend the summer vacation with you at your home. (10)

OR

Write an application to your Principal requesting him to arrange an excursion trip for your class.

Q.No-3 a. Use the following phrasal verbs in your own sentences:- (10)

- (1) Bring back (2) Chill out (3) Get in (4) Hold on
(5) Look into

b. Change the voice of the following sentences:- (10)

- (1) He has watered all the flowers.
- (2) When did she switch the light off?
- (3) How can we pick up the habit of economy?
- (4) They can do it.
- (5) Do not go bear-headed in the sun.

Q.No-4 Read the following Passage carefully and answer the questions given at the end:- (05)

“The young man heard a cry and turned round, but he could not see anybody. At the same moment, a boy ran up to him and pointed towards the river. They both ran along the river bank, after a short time, they saw a girl in the water. The girl was holding on to a piece of wood, but the river was deep, and it was carrying her away. The man acted quickly. He took off his coat at once, jumped into the water and saved the girl’s life”.

Questions:

- a. What did the young man hear and see?
- b. Why could the girl not keep herself above the water?
- c. Suggest a suitable title to the passage.

Q.No-5 Do as directed:- (10)

- a. The boy whom we invited was there. (Name the underlined word)
- b. A man is known _____ the company he keeps. (Use proper preposition)
- c. Did I ever lie? (Name the tense)
- d. You may eat whatever you like. (Name the sentence)
- e. He should not lose his identity. (Name the underlined word)

Q.No-6 Translate into English:- (15)

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SECTION - A (SHORT QUESTIONS)

- Q.No-1 How rainbow is formed. Describe? (5)
- Q.No-2 Why are we unable to hear the sound of explosion on the sun? (5)
- Q.No-3 What are isotopes? Give examples. (5)
- Q.No-4 Write a brief note on distillation of water. (5)
- Q.No-5 What is neuron? Briefly describe its structure. (5)
- Q.No-6 What is Flow of Material in Ecosystem? Describe Food Chain and Food Web. (5)

SECTION - B (LONG QUESTIONS)

- Q.No-7 a. What is difference between electric current and conventional current? (15)
 b. Explain Series and Parallel circuits with diagrams. Also write their advantages and disadvantages.
- Q.No-8 a. Write at least five tips for water conservation? (15)
 b. What are hydrocarbons? Write examples and uses of hydrocarbons?
- Q.No-9 Explain Functions of roots, stem and leaves. Also draw the external structure of root and leaf. (15)

A

B

C

D

E

F

A

B

C

D

E

F

G

G

H

H

I

I