



Registration No.: .....

# BHARTIYA SKILL DEVELOPMENT UNIVERSITY

School of General Education

Session: 2020-21(Winter Semester)

B. Voc. Program, I Semester

1<sup>st</sup> In-Sem. Examination

Course Code: GEN1101

Course Name: English Language & Comprehension

Time: 1 Hour

Max. Marks: 20

## Instructions:

1. All questions are compulsory.
2. The question paper comprises three sections A, B & C. Marks allotted are mentioned against each section.

### Section-A

(1\*5=5)

Q1. Fill in the blank with suitable noun:

Rama bought a \_\_\_\_\_ of bananas from the market. (few/ bunch)

Q2. Choose the correct answer:

Who said, 'I don't want your help, Go away'?

- (i) Velu's wife
- (ii) Velu's son
- (iii) Fisherman
- (iv) Velu

Q3. Fill in the blank with suitable pronoun:

This book is \_\_\_\_\_. ( my/mine)

Q4. State whether the following sentence is True or False: -

Velu had a small but strong boat.

Q5. Fill in the blank with correct option:

Velu was a ..... (manager/fisherman)

### Section- B

(2\*3=6)

Q 6. Describe the nature of Velu in the story, *Velu: A Fisherman*.

Q7. Write a short introduction of yourself.

Q8. Fill in the blanks with suitable nouns/pronouns:

- (a) A large ..... is expected. (crowd/crowds)
- (b) A..... of sheep was grazing. (flock/flocks)
- (c) Those pens are .....( ours/our)
- (d) Are you going to visit .....this evening? (he/him)

Section- C

(3\*3=9)

Q 9. Read the passage given below and answer the questions that follow:

Many years ago, at the foothills of the Katskill (Kat-skill) mountains, was a little village. In the village lived a simple, good-natured fellow named Rip Van Winkle. He was a kind neighbour, ready to help anyone. Everyone in the village liked him. The children of the village shouted with joy whenever they saw him because he played with them, he taught them to fly kites and shoot marbles, and told them long stories. The only problem with Rip was that he was very lazy. He did no work on his own farm and just idled away his time. His fences were falling to pieces.

- (a) What kind of a man was Rip?
- (b) Why did the children of the village like him?
- (c) What did he do all day long?

Q10. Write the summary of *Velu: A Fisherman*.

Q11. Make sentences using the following words: -

- (a) selfish
- (b) beautiful
- (c) kind

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Answer Key.

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### Instructions:

1. All questions are compulsory.
2. The question paper comprises three sections A, B & C. Marks allotted are mentioned against each section.

### Section-A

(1\*5=5)

Q1. Fill in the blank with suitable noun:

- (a) Rama bought a \_\_\_\_\_ of bananas from the market. (few/ **bunch**)

Q 2. Choose the correct answer:

- (a) Who said, 'I don't want your help, Go away'?

- (i) Velu's wife
- (ii) Velu's son
- (iii) Fisherman
- (iv) **Velu**

Q3. Fill in the blank with suitable pronoun:

- (a) This book is \_\_\_\_\_. ( my/**mine**)

Q4. State whether the following sentence is True or False: -

- (a) Velu had a small but strong boat. (**True**)

Q5. Fill in the blank with correct option:

- (a) Velu was a ..... (manager/**fisherman**)

### Section- B

(2\*3=6)

Q 6. Describe the nature of Velu in the story, *Velu: A Fisherman*.

**Ans.** Velu was greedy and selfish. He did not give his fish to other fishermen. He was not kind or pleasant. By the end of the story, he became kind and generous due to one incident. Thereafter, he helped other fishermen.

Q7. Write a short introduction of yourself.



## BHARTIYA SKILL DEVELOPMENT UNIVERSITY

**Ans.** Students will write details about themselves-personal details, academic details, hobbies and family.

**Q8.** Fill in the blanks with suitable nouns/pronouns:

- (a) A large ..... is expected. (**crowd/crowds**)
- (b) A..... of sheep was grazing. (**flock/flocks**)
- (c) Those pens are .....(**ours/our**)
- (d) Are you going to visit .....this evening? (**he/him**)

### Section- C

(3\*3=9)

**Q 9.** Read the passage given below and answer the questions that follow:

Many years ago, at the foothills of the Katskill (Kat-skill) mountains, was a little village. In the village lived a simple, good-natured fellow named Rip Van Winkle. He was a kind neighbour, ready to help anyone. Everyone in the village liked him. The children of the village shouted with joy whenever they saw him because he played with them, he taught them to fly kites and shoot marbles, and told them long stories. The only problem with Rip was that he was very lazy. He did no work on his own farm and just idled away his time. His fences were falling to pieces.

(a) What kind of a man was Rip?

**A simple, good-natured.**

(b) Why did the children of the village like him?

**He played with them, he taught them to fly kites and shoot marbles, and told them long stories.**

(c) What did he do all day long?

**He did no work on his own farm and just idled away his time.**

**Q10.** Write the summary of *Velu: A Fisherman*.

**Ans.** Velu was a fisherman who lived in a small house near the sea. He had good nets and a strong boat for fishing. Velu was greedy and selfish by nature. He was unkind too as he never liked to share his fish with other fishermen.

One day, Velu went fishing to the sea with his fellow fishermen. Velu, being greedy, went a long way into the sea and caught plenty of fish. The fish he caught were small in size. Suddenly, Velu saw many big fish and wanted to catch them. So, he threw away all his small fish and cast his net again to catch the bigger fish. The other fishermen offered to help him, but Velu refused to take their help. Hence, they all went away.

Velu caught a lot of big fish this time in his net. The net became so heavy that Velu could not pull it into his boat alone. The fish broke the net and escaped into the sea, damaging the fishing net. Velu realized his mistake and decided not to be greedy again. At night, Velu and his wife had nothing to eat. His friend fisherman offered them fish for dinner and also promised to help Velu mend his net.



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Q11. Make sentences using the following words: -

Ans.

- (a) selfish – Ram is a **selfish** boy.
- (b) beautiful - She is very **beautiful**.
- (c) kind - He is **kind**.

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School of General Education  
Session: 2020-21(Winter Semester)  
B. Voc. Program, 1<sup>st</sup> Semester,  
1<sup>st</sup> In-Sem. Examination

Course Code: GEN 1103

Time: 1 Hour

Course Name: Applied Mathematics

Max. Marks: 20

**Instruction:**

1. All questions are compulsory.
2. Missing data if any can be suitably assumed.
3. Calculator is not permitted.

**Section – A**

05×01 = 05 Marks

Q1. Which one of the following collections is not a set?

- (a) The collection of all the days of a month.
- (b) The collection of all spiritual books of India.
- (c) The collection of all the months of a year beginning with the letter 'D'.
- (d) The collection of all best players in Rajasthan.

Q2. If  $A = \{1, 2, 3, 4, 5, 6, 7, 8\}$ , then which one is true?

- |   |  |
|---|--|
| (a) $A = \{x : x \in \mathbb{Z} \text{ and } x < 9\}$ | (c) $A = \{x : x \in \mathbb{N} \text{ and } x \leq 8\}$ |
| (b) $A = \{x : x \in \mathbb{N} \text{ and } x < 8\}$ | (d) $A = \{x : x \in \mathbb{W} \text{ and } x \leq 8\}$ |

Q3. If  $A = \{1, 2, 3, 4\}$  and  $B = \{1, 3, 5, 7\}$ , then  $A-B$  is

- |                      |                      |
|----------------------|----------------------|
| (a) $A-B = \{1, 4\}$ | (c) $A-B = \{2, 4\}$ |
| (b) $A-B = \phi$     | (d) $A-B = \{1, 3\}$ |

Q4. If  $A = \{a, b, c, d\}$  and  $B = \{b, c, d, e\}$ , then  $B-A$  is

- |                            |                   |
|----------------------------|-------------------|
| (a) $B-A = \{a, b, c, d\}$ | (c) $B-A = \{a\}$ |
| (b) $B-A = \phi$           | (d) $B-A = \{e\}$ |

Q5. Which one of the following number is not a prime number?

- |        |         |
|--------|---------|
| (a) 81 | (c) 101 |
| (b) 41 | (d) 11  |

**Section – B**

03×02 = 06 Marks

Q6. Write the set  $A = \{5, 25, 125, \dots\}$  into set-builder form.Q7. If  $A = \{11, 13, 15\}$  and  $B = \{12, 13, 14, 15\}$ , then find

- (i)  $A \cup B$       (ii)  $A \cap B$

Q8. Write the power set of following set:

$$A = \{-2, 0, 1\}$$

Section – C

03×03 = 09 Marks

Q9. Write the power set for the following sets:

(i)  $A = \{a, b, c, d\}$

(ii)  $B = \{4, \{5, 6\}, 7\}$

Q10. Write the following sets in roster form:

(i)  $A = \{x: x \text{ is an integer and } -4 < x < 6\}$

(ii)  $B = \{x: x \text{ is a natural number less than 11}\}$

(iii)  $C = \{x: x \in Z \text{ and } -\frac{1}{2} < x < \frac{7}{2}\}$

Q11. If  $U = \{a, b, c, d, e\}$ ,  $A = \{a, b, c\}$  and  $B = \{b, c, d, e\}$ , then show that

$$(A \cup B)' = (A' \cap B')$$

\*\*\*\*

SV

Answer key (1<sup>st</sup> In sem)

Q1 (a) Q2 (c) Q3 (c) Q4 (d) Q5 (a)

Q6  $A = \{x = 5^n : n \in \mathbb{N}\}$

Q7 (i)  $A \cup B = \{11, 12, 13, 14, 15\}$

(ii)  $A \cap B = \{13, 15\}$

Q8  $P(A) = \{\emptyset, \{-2\}, \{0\}, \{1\}, \{-2, 0\}, \{2, 1\}, \{0, 1\}, \{-2, 0, 1\}\}$

Q9 (i)  $P(A) = \{\emptyset, \{a\}, \{b\}, \{c\}, \{d\}, \{a, b\}, \{a, c\}, \{a, d\}, \{b, c\}, \{b, d\}, \{a, b, c\}, \{a, b, d\}, \{b, c, d\}, \{a, c, d\}, \{a, b, c, d\}, \{c, d\}\}$

(ii)  $P(B) = \{\emptyset, \{4\}, \{5, 6\}, \{7\}, \{4, 5, 6\}, \{4, 7\}, \{5, 6, 7\}, \{4, 5, 6, 7\}\}$

Q10 (i)  $A = \{-3, -2, -1, 0, 1, 2, 3, 4, 5\}$

(ii)  $B = \{1, 2, 3, 4, 5, 6, 7, 8, 9, 10\}$

(iii)  $C = \{0, 1, 2, 3\}$

Q11  $U = \{a, b, c, d, e\}, A = \{a, b, c\}, B = \{b, c, d, e\}$

$A \cup B = \{a, b, c, d, e\}$

$(A \cup B)^c = U - A \cup B$

$= \{\}$

$A^c = U - A = \{d, e\}$

$B^c = U - B = \{a\}$

$A^c \cap B^c = \{\}$

R.H.S = L.H.S





# BHARTIYA SKILL DEVELOPMENT UNIVERSITY

School of General Education  
1<sup>st</sup> Semester, 1<sup>st</sup> In-Sem. Examination  
B. Voc. Program, Winter Semester (2020-21)

Course Code: GEN1104

Time: 1 Hour

Course Name: Elementary Mathematics

Max. Marks: 20

**Instructions:**

1. Answer all questions form section A, each question carries one mark.
2. Answer all questions form section B, each question carries two marks.
3. Answer all questions form section C, each question carries three marks.

**Section – A**

05X01 = 05 Marks

Q1 Convert 480 cm into meters.

- A. 48 m
- B. 0.48 m
- C. 4.8 m
- D. .048 m

Q2 8 Kilograms is equal to

- A. 800 gm
- B. 8000 gm
- C. 80 gm
- D. 80000 gm

Q3 How many cm are in 0.783m?

- A. 78.3 cm
- B. 7.83 cm
- C. 783 cm
- D. 7830 cm

Q4 How many meters are in 0.525mm?

- A. 5.25 m
- B. 52.5 m
- C. 0.525 m
- D. 0.0525 m

Q5 1 Kilograms is equal to

- A. 100 gm
- B. 1000 gm
- C. 10 gm
- D. 10000 gm

**BHARTIYA SKILL DEVELOPMENT UNIVERSITY****Section – B**

03X02 = 06 Marks

Q6. Convert 25 liters into the following units.

(i) centiliters

(ii) milliliters

Q7 Convert 6250 grams into the following units.

(ii) kilograms

(iii) milligrams

Q8 Fill in the boxes.

(i) \_\_\_\_\_ mm = 25 cm

(ii) 25382 mg = \_\_\_\_\_ g \_\_\_\_\_ mg

**Section – C**

03X03 = 09 Marks

Q9 Arya travelled 5 km 300 m by car and 1 km 100 m by bike. What distance did he travel in all?

Q10 Read the following table and answer the following question.

S.No.	Names	Distance of Sixes beaten in a cricket match
1	Sachin	90 m
2	Yuvi	101 m 5 cm
3	Raina	80 m 25 cm

What is the difference between the distance hit by Sachin and Yuvi?

Q11 Convert  $13_{10}$  to binary:

SN

**BHARTIYA SKILL DEVELOPMENT UNIVERSITY**

School of General education

1<sup>st</sup> Semester, 1<sup>st</sup> In-Sem. Examination

B. Voc. Program, Winter Semester (2020-21)

Course Code: GEN1104

Course Name: Elementary Mathematics

Time: 1 Hour

Max. Marks: 20

*Answer key*  
Section - A

05X01 = 05 Marks

Q1 Convert 480 cm into meters.

- A. 48 m
- B. 0.48 m
- C. 4.8 m
- D. .048 m

Q2 8 Kilograms is equal to

- A. 800 gm
- B. 8000 gm
- C. 80 gm
- D. 80000 gm

Q3 How many cm are in 0.783m?

- A. 78.3 cm
- B. 7.83 cm
- C. 783 cm
- D. 7830 cm

Q4 How many meters are in 0.525mm?

- A. 5.25 m
- B. 52.5 m
- C. 0.525 m
- D. 0.0525 m

Q5 1 Kilograms is equal to

- A. 100 gm
- B. 1000 gm
- C. 10 gm
- D. 10000 gm

**BHARTIYA SKILL DEVELOPMENT UNIVERSITY****Section – B**

03X02 = 06 Marks

Q6. Convert 25 liters into the following units.

(i) centilitres = 2500cl

(ii) millilitres = 25000ml

Q7 Convert 6250 grams into the following units.

(i) kilograms = 6.25

(ii) milligrams = 6250000

Q8 Fill in the boxes.

(i) 250 mm = 25 cm(ii) 25382 mg = 25 g 382 mg

Q9 Arya travelled 5 km 300 m by car and 1 km 100 m by bike. What distance did he travel in all?

5 km 300 m by car

+1 km 100 m by bike6 km 400 m all

Q10 Read the following table and answer the following question.

S.No.	Names	Distance of Sixes beaten in a cricket match
1	Sachin	90 m
2	Yuvi	101 m 5 cm
3	Raina	80 m 25 cm

What is the difference between the distance hit by Sachin and Yuvi?

11 m 5 cm

Q11. Convert  $13_{10}$  to binary:

Division by 2	Quotient	Remainder
13/2	6	1
6/2	3	0
3/2	1	1
1/2	0	1

So  $13_{10} = 1101_2$