



Registration No.:

BHARTIYA SKILL DEVELOPMENT UNIVERSITY
School of General Education

Session: 2021-22(Summer Semester)

B. Voc. Program, V Semester,

2nd In-Sem. Examination

Course Code: GEN1501

Course Name: Advanced Communication Skills

Instruction:

Time: 1 Hour

Max. Marks: 20

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. What was the color of the daffodils in the poem?

- (a) Silver (c)Purple
(b) Golden (d)Orange

Q2. Write the correct meaning of "Bon Voyage".

- (a) Nice thought (c) Have a nice journey
(b) Have a nice day (d) Nice place

Q3. The name of the boy in the story, *The Cherry Tree* was:

- (a) Rahul (c) Rajan
(b) Raman (d) Rakesh

Q4. Write the correct meaning of *siesta*.

- (a) Insomnia (c) Hibernation
(b) A short nap (d) Slumber

Q5. The story, *The Cherry Tree* is written by:

- (a) Robert Frost (c) Robert Browning
(b) Ruskin Bond (d) William Wordsworth

Section- B

(2*3=6)

Q 6. What question does Rakesh ask at the end of the story? What do you think he means by the question?

Q 7. Explain the given lines with reference to the context:

*Beside the lake, beneath the trees,
Fluttering and dancing in the breeze.*

Q 8. Correct the following sentences:

- (a) He is married with an engineer.
(b) Everyone have seen that movie.

Section- C

(3*3=9)

- Q 9. Write the summary of the poem *Daffodils*.
- Q 10. Write the character sketch of Rakesh as given in the story, *The Cherry Tree*.
- Q 11. Make a precis of the following paragraph.

Scientists know many things about the Sun. They know how old it is. The Sun is more than 4½ billion years old. They also know the Sun's size. The Sun may seem small, but that is because it is so far away. It is about 93 million miles (150 million kilometers) away from the Earth. The Sun is so large that the diameter of the Sun is 109 times the Earth's diameter. The Sun also weighs as much as 333,000 Earths. The Sun is the center of our Solar System. Besides the Sun, the Solar System is made up of the planets, moons, asteroid belt, comets, meteors, and other objects.

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Section-A

(1*5=5)

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- Q5. The story, *The Cherry Tree* is written by:
(a) Robert Frost (c) Robert Browning
(b) **Ruskin Bond** (d) William Wordsworth

Section- B

(2*3=6)

- Q 6. What question does Rakesh ask at the end of the story? What do you think he means by the question?
Ans. At the end of the story, Rakesh wondered what it felt to be God. He was amazed by how a small seed, he had planted had grown into a beautiful tree that provided fruits, shade and shelter to everyone. He considered it as a miracle that he had performed and was happy that his efforts had been fulfilled.
- Q 7. Explain the given lines with reference to the context:

*Beside the lake, beneath the trees,
Fluttering and dancing in the breeze.*

Ans. These lines express the pleasant encounter of the poet with the daffodils by a lake. Once the poet was wandering pointlessly beside a lake, he was all alone to wander freely akin to a patch of clouds floating in the sky, over the valleys and the hills. Suddenly he could view the large number of daffodils gathered by the side of the lake. They were sheltered under a growing tree. The airy breeze made them wave and dance, rejoice and play.

Q 8. Correct the following sentences:

- (a) Everyone have seen that movie.
- (b) He is married with an engineer.

Section- C

(3*3=9)

Q 9. Write the summary of the poem *Daffodils*.

Ans. A great lover of nature, William Wordsworth, had once wandered aimlessly just like a cloud floats in the sky. He had suddenly come across countless golden daffodils by the side of a lake. Those golden daffodils were fluttering and dancing in the air, appearing like stars twinkling in the sky. The poet compares the golden daffodils with the stars that shine and twinkle in the sky. The poet feels the number of the daffodils as never-ending as the stars in the Milky Way. The waves of the lake are also dancing but the dance of the daffodils surpassed the dance of the waves in happiness. The poet is wonderfully delighted in such a pleasant company. According to the poet, he could scarcely realize that he was collecting a treasure in his mind. As time went on the poet found himself in the vacant or pensive mood but the beautiful sight of the golden daffodils began appearing in his mind and that recollection filled the poet's heart with extraordinary delight. In a nutshell, the poem exemplifies how William Wordsworth, a pantheist, derives extraordinary bliss in the most ordinary things.

Q 10. Write the character sketch of Rakesh as given in the story, *The Cherry Tree*.

Ans. The personality of Rakesh is introduced as having all incredible character characteristics. He is caring, studious, committed, cherishing, and, a large portion of all, he is dedicated to his family. He even gives them the best indication of regard and commitment by respectfully touching their feet. Rakesh expanded his giving sympathetic care of his grandfather, even helping him downstairs and reading papers to him. This is the main incident causing the change that surpassed Rakesh's character.

In the story *The Cherry Tree*, Rakesh is a very caring person. He plants a cherry seedling and nurtures it at every point of time. He watches it grow and always stays by the plant like a parent would to his/her child. As time goes by, the cherry tree suffers various perils such as having its leaves eaten by a goat and a grass cutter who cuts it down. Yet, Rakesh does not give up on the plant and it becomes a huge tree. Finally, Rakesh's efforts are rewarded and on his ninth birthday, his cherry tree bears its first blossoms.

Q 11. Make a precis of the following paragraph.

Scientists know many things about the Sun. They know how old it is. The Sun is more than 4½ billion years old. They also know the Sun's size. The Sun may seem small, but that is because it is

so far away. It is about 93 million miles (150 million kilometers) away from the Earth. The Sun is so large that the diameter of the Sun is 109 times the Earth's diameter. The Sun also weighs as much as 333,000 Earths. The Sun is the center of our Solar System. Besides the Sun, the Solar System is made up of the planets, moons, asteroid belt, comets, meteors, and other objects.

Ans. Scientists know that the Sun is more than 4½ billion years old. It seems small because it is about 93 million miles away from the Earth. The diameter of the Sun is 109 times the Earth's diameter and it weighs as much as 333,000 Earths. The Sun is the center of our Solar System.



**BHARTIYA SKILL DEVELOPMENT UNIVERSITY**

School of General Education
Session: 2021-22(Summer Semester)
B. Voc. Program, 5th Semester,
2nd In-Sem. Examination

Course Code: GEN 1502

Time: 1 Hour

Course Name: Quantitative Aptitude

Max. Marks: 20

Instruction:

1. All questions are compulsory.
2. Calculator is not permitted.

Section – A

05×01 = 05 Marks

Q1. The value of $\log_2 16$ is

- (a) 1/8 (c) 4
(b) 8 (d) 16

Q2. If $\log_8 x = \frac{2}{3}$, then the value of x is

- (a) 3/4 (c) 4/3
(b) 3 (d) 4

Q3. $\sqrt{123454321} = ?$

- (a) 111111 (c) 1111
(b) 11111 (d) 12321

Q4. 3.5 can be expressed in terms of percentage as

- (a) 0.35% (c) 3.5%
(b) 35% (d) 350%

Q5. 12% of 5000 = ?

- (a) 600 (c) 620
(b) 680 (d) 720

Section – B

03×02 = 06 Marks

Q6. 125% of 3060 – 85% of ? = 408.

Q7. If $\sqrt{1 + \frac{x}{144}} = \frac{13}{12}$, then find the value of x .Q8. If $\log 2 = 0.3010$ and $\log 3 = 0.4771$, find the value of $\log 25$.

Q9. (i) Evaluate $\sqrt{6084}$ by factorization method.

(ii) If $\sqrt{3^n} = 729$, then what is the value of n?

Q10. Find the value of

(i) $\left[\frac{1}{(\log_a bc) + 1} + \frac{1}{(\log_b ca) + 1} + \frac{1}{(\log_c ab) + 1} \right]$

(ii) $\log\left(\frac{9}{14}\right) - \log\left(\frac{15}{16}\right) + \log\left(\frac{35}{24}\right)$

Q11. Difference of two number is 1660. If 7.5% of one number is 12.5% of the other number, find the numbers.

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B. Voc. Program, 5th Semester,2nd In-Sem. Examination

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Time: 1 Hour

Course Name: Quantitative Aptitude

Max. Marks: 20

Instruction:

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2. Calculator is not permitted.

Section – A

05×01 = 05 Marks

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- (a) 1/8 (c) 4
(b) 8 (d) 16

Q2. If $\log_8 x = \frac{2}{3}$, then the value of x is

- (a) 3/4 (c) 4/3
(b) 3 (d) 4

Q3. $\sqrt{123454321} = ?$

- (a) 111111 (c) 1111
(b) 11111 (d) 12321

Q4. 3.5 can be expressed in terms of percentage as

- (a) 0.35% (c) 3.5%
(b) 35% (d) 350%

Q5. 12% of 5000 = ?

- (a) 600 (c) 620
(b) 680 (d) 720

Section – B

03×02 = 06 Marks

Q6. (i) 125% of 3060 – 85% of ? = 408. (4020)

(ii) 70% of 320 + 45% of 240 = ? (332)

Q7. If $\sqrt{1 + \frac{x}{144}} = \frac{13}{12}$, then find the value of x . (25)

Q8. If $\log 2 = 0.3010$ and $\log 3 = 0.4771$, find the value of:

(i) $\log 25$ **(1.398)**

(ii) $\log 4.5$ **(0.6532)**

Section – C

03×03 = 09 Marks

Q9. (i) Evaluate $\sqrt{6084}$ and $\sqrt{5776}$ by factorization method. **(78 & 76)**

(ii) If $\sqrt{3^n} = 729$, then what is the value of n? **(12)**

Q10. Find the value of

(i) $\left[\frac{1}{(\log_a bc)+1} + \frac{1}{(\log_b ca)+1} + \frac{1}{(\log_c ab)+1} \right]$ **(1)**

(ii) $\log\left(\frac{9}{14}\right) - \log\left(\frac{15}{16}\right) + \log\left(\frac{35}{24}\right)$ **(0)**

Q11. Difference of two number is 1660. If 7.5% of one number is 12.5% of the other number, find the numbers. **(2490, 4150)**



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Registration No.:

School of General Education
Session: 2021-22 (Summer Semester)
B. Voc. 5th Semester,
2nd In-Sem. Examination

Course Code: GEN1503

Time: 1 Hour

Course Name: Financial Accounting

Max. Marks: 20

Section – A

05X01 = 05 Marks

- Q.1.** Which of the following is a book of Primary entries?
- a. Posting
b. Ledger
c. Account
d. Journal
- Q.2.** Journal is used as the book of ___ entry which cannot be recorded in ____.
- a. secondary, journal
b. primary, cash book
c. entries, sales book
d. None of the above
- Q.3** Fixture & Furniture Account is a type of.
- a. Real A/c
b. Nominal A/c
c. Personal A/c
d. Representative Personal A/c
- Q.4** The term 'depreciable assets' refers to:
- a. Liabilities and assets
b. Tangible fixed assets
c. Intangible assets
d. None of the above
- Q.5** Which of the following are the Intangible assets?
- A. Goodwill
B. Patents
C. Land & Vechiles
D. Trademarks
- a. A & B
b. A, B & C
c. A, B & D
d. C & D

Section – B

03X02 = 06 Marks

- Q.1 Write down the advantage of the Double Entry System?
- Q.2 What do you understand by recording of transaction?
- Q.3 Define the Concept of Depreciation?

Section – C

03X03 = 09 Marks

- Q.1 What are the key points between Nominal account V/s Real Account?
- Q.2 Differentiate between journal and ledger?
- Q.3 Explain the Complex Voucher with the help of format?



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Registration No.:

School of General Education Skills
Session: 2021-22 (Summer Semester)
B. Voc. 5th Semester,
2nd In-Sem. Examination

Course Code: GEN1503

Course Name: Financial Accounting

Instruction:

05 objective type questions, each question carries 01 mark.

03 short answer type questions, each question carries 02 marks.

03 essay type questions, each question carries 03 marks.

Time: 1 Hour

Max. Marks: 20

Section – A

05X01 = 05 Marks

Q.1. Which of the following is a book of Primary entries?

- a. Posting
- b. Ledger**
- c. Account
- d. Journal

Q.2. Journal is used as the book of ____ entry which cannot be recorded in ____.

- a. secondary, journal
- b. primary, cash book**
- c. entries, sales book
- d. None of the above

Q.3 Fixture & Furniture Account is a type of.

- a. Real A/c**
- b. Nominal A/c
- c. Personal A/c
- d. Representative Personal A/c

Q.4 The term 'depreciable assets' refers to:

- a. Liabilities and assets
- b. Tangible fixed assets**
- c. Intangible assets
- d. None of the above

Q.5 Which of the following are the Intangible assets?

- | | |
|--------------------|---------------|
| A. Goodwill | B. Patents |
| C. Land & Vechiles | D. Trademarks |
-
- a. A & B
 - b. A, B & C**
 - c. A, B & D
 - d. C & D



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Section – B

03X02 = 06 Marks

Q.1 Write down the advantage of the Double Entry System?

Ans

- To maintain the systematic record of financial transactions.
- To solve the problems arises on financial matters.
- To provide financial information to the management for making financial plans and decisions.

Q.2 What do you understand by recording of transaction?

Ans.

The accounting involves a process of identifying and analyzing the business transactions, recording them, classifying and summarizing their effects, and finally communicating it to the interested users of accounting information. Now, we will discuss the details of each step involved in the accounting process. The first step involves identifying the transactions to be recorded and preparing the source documents which are in turn recorded in the basic book of original entry called journal and are then posted to individual accounts in the principal book called ledger.

Q.3 Define the Concept of Depreciation?

- Ans. Depreciation ties the cost of using a tangible asset with the benefit gained over its useful life.
- There are many types of depreciation, including straight-line and various forms of accelerated depreciation.
- Accumulated depreciation refers to the sum of all depreciation recorded on an asset to a specific date.
- The carrying value of an asset on the balance sheet is its historical cost minus all accumulated depreciation.
- The carrying value of an asset after all depreciation has been taken is referred to as its salvage value.



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Section – C

03X03 = 09 Marks

Q.1 What are the key points between Nominal account V/s Real Account?

NOMINAL ACCOUNT VERSUS REAL ACCOUNT

Basis of comparison	Nominal Account	Real Account
Definition	Accounts recorded in the income statement and are closed periodically.	Accounts that remain open and are recorded in balance sheet.
Time of closing Account	End of year	Kept open; balances carried forward
Account Type	Incomes, gains, expenses and losses	Assets, liabilities and owner's equity
Financial Statement Used	Income Statement	Balance Sheet
Purpose	To determine net profits and losses	To determine financial position
Alternate name	Temporary Account	Permanent Account Difference Between net

Q.2 Differentiate between journal and ledger?

Ans.

Journal	Ledger
1. The Journal is the book of the first entry (original entry).	1. The ledger is the book of secondary entry.
2. It is the book for chronological records.	2. It is the book for analytical records.



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3. It is prepared on the basis of source documents of transactions.	3. It is prepared on the basis of the journal.
4. Process of recording in the Journal is called Journalising	4. The process of recording in the ledger is known as posting.
5. Narration is written for each entry.	5. No narration is given

Q.3 Explain the Complex Voucher with the help of format?

Ans

The transaction with multiple debits and multiple credits are called complex transactions and the accounting voucher prepared for such transactions is called a Complex Voucher/Journal Voucher.

JOURNAL VOUCHER				
Name of Firm :				
Voucher No		:	Date :	
DEBIT ENTRIES				
S. No.	Code	Account Name	Amount Rs.	Narration (i.e.Explanation)
CREDIT ENTRIES				
S. No.	Code	Account Name	Amount Rs.	Narration (i.e.Explanation)
Authorised By :			Prepared By :	



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Registration No.:

School of General Education
Session: 2021-22 (Summer Semester)
B.Voc. Program, V Semester
2nd In-Sem. Examination

Course Code: GEN 1506

Course Name: Digital Marketing and Analytics

Section – A

Time: 1 Hour

Max. Marks: 20

05X01 = 05 Marks

Answer the following objective-type questions, each question carries 01 mark.

Q.1 What is data visualization?

- a) It is the graphical representation of information and data
- b) It is the numerical representation of information and data
- c) It is the character representation of information and data
- d) All of the above

Q.2 Data Visualization in mining cannot be done using.

- a) Graphs
- b) Photos
- c) Charts
- d) Information Graphics

Q.3 _____ generate aesthetic mappings that describe how variables in the data.

- a) aes_all
- b) aes_auto
- c) aes
- d) aes_string

Q.4 Which is not a visualization tool?

- a) NodeXL
- b) Tableau
- c) Ruby
- d) Gephi

Q.5 Data visualization tools provide an accessible way to see and understand in data.

- a) Trends
- b) Outliers
- c) Patterns
- d) All of the above



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Section – B

03X02 = 06 Marks

Answer the following short answer-type questions, each question carries 02 marks.

- Q.1. What are Facebook audience insights?
- Q.2. What is the use of R studio?
- Q.3. Why Tableau is more than a Data Visualization Tool?

Section – C

03X03 = 09 Marks

Answer following essay-type questions, each question carries 03 marks.

- Q.1. What is a social media analytics dashboard? List out five benefits of using a social media analytics dashboard.
- Q.2. Compare and contrast Text mining & Data mining.
- Q.3. Discuss types of social media data analysis that you can perform using R.?



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Registration No.:

School of General Education

Session: 2021-22 (Summer Semester)

B.Voc. Program, V Semester

2nd In-Sem. Examination

Course Code: GEN 1506

Time: 1 Hour

Course Name: Digital Marketing and Analytics

Max. Marks: 20

Section – A

05X01 = 05 Marks

Answer the following objective type questions, each question carries 01 mark.

Q.1 What is data visualization?

- a) It is the graphical representation of information and data
- b) It is the numerical representation of information and data
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- d) All of the above

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Q.5 Data visualization tools provide an accessible way to see and understand in data.

- a) Trends
- b) Outliers
- c) Patterns
- d) All of the above

Section – B

03X02 = 06 Marks

Answer the following short answer type questions, each question carries 02 marks.

Q.1 What are Facebook audience insights?

Ans: Facebook Audience Insights gives you aggregated information about two groups of people – people connected to your Page and people on Facebook – so you can create content that resonates and easily find more people like the ones in your current audience.

It also gives you insight about the following:





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Demographics overview: See age and gender breakdowns, education levels, job titles, relationship statuses and more.

Find out what people like: Learn about people's interests and hobbies.

Learn about lifestyles: Audience Insights combines relationship status and location to tell you about the types of people interested in your business.

Q.2 What is the use of R studio?

Ans: R Studio provides popular open source and enterprise-ready professional software for the R statistical computing environment. It is an integrated development environment (IDE) that allows you to interact with R more readily. RStudio is similar to the standard RGui, but is considerably more user friendly. It has more drop-down menus, windows with multiple tabs, and many customization options.

Q.3. Why Tableau is more than a Data Visualization Tool?

Ans: Tableau is a data analytics and visualization tool used widely in the industry today. Many businesses even consider it indispensable for data-science-related work. Tableau's ease of use comes from the fact that it has a drag and drop interface. This feature helps to perform tasks like sorting, comparing and analyzing, very easily and fast. Tableau is also compatible with multiple sources, including Excel, SQL Server, and cloud-based data repositories which makes it an excellent choice for Data Scientists.

Section – C

03X03 = 09 Marks

Answer following essay type questions, each question carries 03 marks.

Q.1 What is social media analytics dashboard? List out five benefits of using social media analytics dashboard.

Ans: A social media analytics dashboard is a reporting tool that individuals or companies use to track engagement metrics of their social media channels or accounts, using a single interface. Each social media platform offers its own vernacular and unique metrics (not to mention its own specific challenges). A social media dashboard reconciles social media metrics into a single reporting interface that can be shared with everyone on your marketing team.

Benefits of using Social Media Analytics Dashboard

- A social media analytics dashboard reconciles social media metrics into a single reporting interface.
- It can also track who the most influential people in your community are across all platforms, what messages are having the most impact, and how all of this is affecting your business.
- These dashboards are becoming increasingly important to marketers, quickly democratizing the decision-making process by providing access to information.

Your company/brand can stay ahead or up to date with the fast-paced world of social media by tracking the analytics important to you.

Q.2. Compare and contrast Text mining & Data mining.

Ans: IT specialists in the enterprise data world used to focused on “data mining”, which we can define as the discovery of knowledge from structured data. Today the majority of available business data is unstructured information; even though it may also contain numbers, dates and facts in structured fields. The presence of unstructured information makes it more difficult to effectively perform knowledge management activities using traditional business intelligence tools. The discovery of knowledge sources that contain text or unstructured information is called “text mining”. So, the main difference between data mining and text mining is that in text mining data is unstructured.

At the outset, text mining is the set of processes required to turn unstructured text documents or resources into valuable structured information.



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Whereas, data mining is the process of sorting through large data sets to identify patterns and establish relationships to solve problems through data analysis.

While text and data mining are now considered complementary techniques required for efficient business management, text mining tools are becoming even more important as 80% of information is made of text!

Q.3. Discuss types of social media data analysis that you can perform using R.?

Ans: Following are the major types of data analysis one can perform on social media data using R programming:

1. Twitter Data Mining and Predictive Modeling in R: The open-source statistical programming language R can be used to gather information from the social media platform Twitter, to collect tweets from various news sources, celebrities, political figures, official college's accounts, among others. Information such as screen names, number of tweets, number of followers, list of friends, and locations can be collected using the twitterR package in combination with the Twitter application programming interface (Twitter API). With such data, one can perform text mining by counting the word frequency in news sources' tweets, creating data visualizations to represent frequency of words, and conduct a sentiment analysis to understand and measure the impact of certain topics and opinions expressed in this social media venue.

2. Social Network Analysis with R: Social Network Analysis is a set of methods used to visualize networks, describe specific characteristics of overall network structure, and build mathematical and statistical models of network structures and dynamics. Social network analysis has been used to study web pages, journal articles, countries, and neighborhoods. The igraph package in R provides tools for network analysis. The main goals of the igraph library are to provide a set of data types and functions for:

- a. pain-free implementation of graph algorithms,
- b. fast handling of large graphs, with millions of vertices and edges,
- c. allowing rapid prototyping via high level languages like R.

3. Brand Engagements in Facebook with R: Facebook's social Graph API to access actual Facebook data to perform various analyzes. Users, brands, businesses, news channels, media houses, retail stores and many more are using Facebook actively on a daily basis for producing and consuming content. This generates vast amounts of data, and a substantial amount of this is available to users through its APIs. From a social media analytics perspective, this is really exciting because this treasure trove of data, with easy to access APIs and powerful open source libraries from R, gives us enormous potential and opportunities to get valuable information from analyzing it in various ways. Libraries like Rfacebook, igraph and ggplot2 are used to retrieve, analyze and visualize data from Facebook.





BHARTIYA SKILL DEVELOPMENT UNIVERSITY

School of General Education

Session: 2021-22 (Summer Semester)

B. Voc. Program, 5th Semester,

2nd In-Sem. Examination

Course Code: GEN 1507

Time: 1 Hour

Course Name: Reasoning & General Awareness

Max. Marks: 20

Student Name		
School		
Reg. No.		
Invigilator Name		
Invigilator Sign with date		

Tick the correct answer

**** GENERAL AWARENESS ****

10×01 = 10 Marks

Q1. The southern part of western coast is called

- a) Konkan
b) Kannad plain
c) Malabar coast
d) Coromandel coast

Q2. The longitudinal valleys lying between lesser Himalaya and shivaliks are known as

- a) Kangra valley
b) Patkai Bum
c) Passes
d) Duns

Q3. Consider the following statement(s) is/are related to deccan plateau

1. It is a large triangular plateau bounded by the Vindhya to the north and flanked by the eastern and western ghat.
2. It sloped gently from east to west and give rise to several peninsular rivers such as the Godavari, the Krishna, the Kaveri and the Mahanadi which drain into the Bay of Bengal.

Which of the above statement(s) is/are correct?

- a) Only 1
b) Only 2
c) Both 1 & 2
d) Neither 1 nor 2

Q4. Lipids are made up of

- a) Glycerol and amino acids
b) Glucose and amino acids
c) Glycerol and fatty acids
d) Glucose and fatty acids

Q5. Antibodies are example of

- a) Carbohydrates
b) Lipids
c) Enzymes
d) Proteins

Q12. Anil has been working for 3 years after completing M.Tech degree. He was born on 1-11-1990. He has secured 60% marks in the written test and 45% marks in post-graduation.

- a) if the case is to be referred to Registrar.
- b) if the case is to be referred to Director.
- c) if the applicant is to be admitted.
- d) if the information is inadequate to take a decision.
- e) if the applicant is not to be admitted.

Q13. A series is given, with one term missing. Choose the correct alternative from the given ones that will complete the series.

AbCdE, DeFgH, GhIjK, JkLmN, ?

- a) OpQrS
- b) NoPqR
- c) MnOpQ
- d) LmNoP

Q14. A series is given with one term missing. Select the correct alternative from the given ones that will complete the series.

DK, FN, HQ, ?

- a) KS
- b) JT
- c) KT
- d) JS

Q15. If 'RAJU' is coded as 11-12-13-14 and 'JUNK' is coded as 13-14-10-9, then how will you code 'RANK'?

- a) 9-10-11-12
- b) 10-11-12-9
- c) 11-12-10-9
- d) None of these

Q16. In a certain code language, 'GIVE' is written as 'VIEG' and 'OVER' is written as 'EVRO'. How will 'DISK' be written in that same code?

- a) SIDK
- b) KISD
- c) KDSI
- d) SIKD

Q17. If 'white' is called 'blue', 'blue' is called 'red', 'red' is called 'yellow', 'yellow' is called 'green', 'green' is called 'black', 'black' is called 'violet' and 'violet' is called 'orange', then what would be the colour of human blood?

- a) Red
- b) Green
- c) Black
- d) None of these

Q18. If > denotes +, < denotes -, + denotes ÷, - denotes =, = denotes 'less than' and × denotes 'greater than', find which of the following is a correct statement.

- a) $3 + 2 > 4 = 9 + 3 < 2$
- b) $3 > 2 > 4 = 18 + 3 < 1$
- c) $3 + 2 < 4 \times 9 + 3 < 3$
- d) $3 > 2 < 4 \times 8 + 4 < 2$

Q19. Select correct combination of mathematical sign to replace '*' sign to balance the equation.

$$9 * 4 * 22 * 14$$

a) $\times = -$

c) $= - \times$

b) $\times - =$

d) $- \times =$

Q20. If Q means 'add to', J means 'multiply by', T means 'subtract from' and K means 'divide by', then $26 \text{ K } 2 \text{ Q } 3 \text{ J } 6 \text{ T } 4 = ?$

a) 10

c) 27

b) 28

d) 30

ROUGH WORK

2



BHARTIYA SKILL DEVELOPMENT UNIVERSITY

School of General Education

Session: 2021-22 (Summer Semester)

B. Voc. Program, 5th Semester,

2nd In-Sem. Examination

Course Code: GEN 1507

Time: 1 Hour

Course Name: Reasoning & General Awareness

Max. Marks: 20

Student Name		
School		
Reg. No.		
Invigilator Name		
Invigilator Sign with date		

Tick the correct answer

20×01 = 20 Marks

GENERAL AWARENESS

Q1. The southern part of western coast is called

- a) Konkan
b) Kannad plain
c) **Malabar coast**
d) Coromandel coast

Q2. The longitudinal valleys lying between lesser Himalaya and shivaliks are known as

- a) Kangra valley
b) Patkai Bum
c) Passes
d) **Duns**

Q3. Consider the following statement(s) is/are related to deccan plateau

1. It is a large triangular plateau bounded by the Vindhya to the north and flanked by the eastern and western ghat.
2. It sloped gently from east to west and give rise to several peninsular rivers such as the Godavari, the Krishna, the Kaveri and the Mahanadi which drain into the Bay of Bengal.

Which of the above statement(s) is/are correct?

- a) **Only 1**
b) Only 2
c) Both 1 & 2
d) Neither 1 nor 2

Q4. Lipids are made up of

- a) Glycerol and amino acids
b) Glucose and amino acids
c) **Glycerol and fatty acids**
d) Glucose and fatty acids

Q5. Antibodies are example of

- a) Carbohydrates
b) Lipids
c) Enzymes
d) **Proteins**

Q12. Anil has been working for 3 years after completing M.Tech degree. He was born on 1-11-1990. He has secured 60% marks in the written test and 45% marks in post-graduation.

- a) if the case is to be referred to Registrar.
- b) **if the case is to be referred to Director.**
- c) if the applicant is to be admitted.
- d) if the information is inadequate to take a decision.
- e) if the applicant is not to be admitted.

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AbCdE, DeFgH, GhIjK, JkLmN, ?

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a) 10

c) 27

b) 28

d) 30

ROUGH WORK



BHARTIYA SKILL DEVELOPMENT UNIVERSITY

School of General Education
5th Semester, 2nd In-Sem. Examination
B. Voc. Program, Summer Semester (2021-22)

Course Code: GEN1508

Time: 1 Hour

Course Name: Basic Mathematics/Analysis

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 Mode is the

- (A) middle most frequent value
- (B) least frequent value
- (C) maximum frequent value
- (D) none of these

Q2 Find the lcm 8,12 &15

- (A) 100
- (B) 120
- (C) 130
- (D) 140

Q3 Find the hcf 24 & 56

- (A) 16
- (B) 8
- (C) 10
- (D) 20

Q4: Suppose a shopkeeper has bought 1 kg of apples for 100 rs. And sold it for Rs. 120 per kg. How much is the profit gained by him?

- (A) 20
- (B) 30
- (C) 15
- (D) 35

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Q5 for the above example calculate the percentage of the profit gained by the shopkeeper.

- A. 10%
- B. 20%
- C. 15%
- D. 5%

Section – B

03X02 = 06 Marks

Q6. A man buys an article for Rs. 27.50 and sells it for Rs 28.60. Find his gain percent

Q7 Find the Median, Mode and Mean of 9,5,8,9,9,7,8,9,8?

Q8 Define Following

- (i) Lcm
- (ii) Hcf

Section – C

03X03 = 09 Marks

Q9: A man buys a fan for Rs. 1000 and sells it at a loss of 15%. What is the selling price of the fan?

Q10.

Classes	0-10	10-20	20-30	30-40	40-50
Frequency	2	12	22	8	6

Q11 Calculate the value of Mean(M) for the following data.

CLASS INTERVAL	FREQUANCY(f)
0-10	2
10-20	18
20-30	30
30-40	40
40-50	35
50-60	20
60-70	6
70-80	3



BHARTIYA SKILL DEVELOPMENT UNIVERSITY

School of General education

5th Semester, 2nd In-Sem. Examination

B. Voc. Program, Summer Semester (2021-22)

Course Code: GEN1508

Course Name: Basic Mathematics Analysis

Time: 1 Hour

Max. Marks: 20

Section – A

05X01 = 05 Marks

Q1 Mode is the

- (A) middle most frequent value
- (B) least frequent value
- (C) maximum frequent value**
- (D) none of these

Q2 Find the lcm 8, 12 & 15

- (A) 100
- (B) 120**
- (C) 130
- (D) 140

Q3 Find the hcf 24 & 56

- (A) 16
- (B) 8**
- (C) 10
- (D) 20

Q4: Suppose a shopkeeper has bought 1 kg of apples for 100 rs. And sold it for Rs. 120 per kg. How much is the profit gained by him?

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- (D) 35

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Q5 for the above example calculate the percentage of the profit gained by the shopkeeper.

- A. 10%
- B. 20%
- C. 15%
- D. 5%

Section – B

03X02 = 06 Marks

Q6. A man buys an article for Rs. 27.50 and sells it for Rs 28.60. Find his gain percent

Explanation:

So we have C.P. = 27.50

S.P. = 28.60

Gain = 28.60 - 27.50

= Rs. 1.10

Gain % = $(\text{Gain}/\text{Cost} \times 100) \%$
 $(1.10/27.50 \times 100) \%$

4%

Q7 Find the Median, Mode and Mean of 9,5,8,9,9,7,8,9,8?

As per the given data,

9, 5, 8, 9, 9, 7, 8, 9, 8

Arranging the numbers in numerical order

5, 7, 8, 8, 8, 9, 9, 9, 9

Since there is an odd number of numbers, the middle number is the median of the given data

⇒ Median = 8

The value which appears mostly is considered as mode, as 9 is repeated 4 times.

⇒ Mode = 9

Mean = $(9 + 5 + 8 + 9 + 9 + 7 + 8 + 9 + 8)/9 = 8$

∴ Median, mode and mean = (8, 9, 8)

Q8 Define Following

- (i) Lcm - LCM in Math's is Least Common Multiple.
- (ii) Hcf - HCF in Math's is Highest Common Factor

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Classes	Number of students	Cumulative frequency
0-10	2	2
10-20	12	$2 + 12 = 14$
20-30	22	$14 + 22 = 36$
30-40	8	$36 + 8 = 44$
40-50	6	$44 + 6 = 50$

$$N = 50$$

$$N/2 = 50/2 = 25$$

$$\text{Median Class} = (20 - 30)$$

$$l = 20, f = 22, c = 14, h = 10$$

Using Median formula:

$$\text{Median} =$$

$$= 20 + (25 - 14)/22 \times 10$$

$$= 20 + (11/22) \times 10$$

$$= 20 + 5 = 25$$

Q11 Calculate the value of Mean(M) for the following data.

CLASS INTERVAL	FREQUENCY(f)
0-10	2
10-20	18
20-30	30
30-40	40
40-50	35
50-60	20
60-70	6
70-80	3

**BHARTIYA SKILL DEVELOPMENT UNIVERSITY****Section – C**

03X03 = 09 Marks

Q9: A man buys a fan for Rs. 1000 and sells it at a loss of 15%. What is the selling price of the fan?

Solution: Cost Price of the fan is Rs.1000

Loss percentage is 15%

As we know, Loss percentage = $(\text{Loss}/\text{Cost Price}) \times 100$

$$15 = (\text{Loss}/1000) \times 100$$

Therefore, Loss = 150 rs.

As we know,

$$\text{Loss} = \text{Cost Price} - \text{Selling Price}$$

$$\text{So, Selling Price} = \text{Cost Price} - \text{Loss}$$

$$= 1000 - 150$$

$$\text{Selling Price} = \text{R.850/-}$$

10 Find the median marks for the following distribution:

Classes	0-10	10-20	20-30	30-40	40-50
Frequency	2	12	22	8	6

Solution:

We need to calculate the cumulative frequencies to find the median.

Calculation table:

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Ans:-

CLASS INTERVAL	Mid-point (x)	FREQUANCY(f)	fx
0-10	5	2	10
10-20	15	18	270
20-30	25	30	750
30-40	35	40	1400
40-50	45	35	1575
50-60	55	20	1100
60-70	65	6	390
70-80	75	3	225
		N = 154	$\sum fx = 5720$

$$\text{Mean (M)} = \frac{\sum fx}{N}$$

$$= \frac{5720}{154}$$

$$= 37.15 \text{ An}$$

