

VIRTUAL UNIVERSITY OF PAKISTAN

A Good Education is a Foundation For a Better Future

CORRECT ANSWER SOLVED BY HADI
EMAIL: hadirajputofficial@gmail.com
WHATSAPP & CALL: 03087122922

(Final Term Past Paper)

MADE AND SOLVED BY TEAM HADI

WARNING: Team HADI is not responsible for any mistake or wrong answer. All students reading and using this document may check and confirm the answers at their own.



WhatsApp: 03087122922



FACEBOOK ID: <https://www.facebook.com/hadipastpapers/>

Best of luck!



Question No : 1 of 52

Marks: 1 (Budgeted Time 1 Min)

A sub graph of a graph G that contains every vertex of G and is a tree is called

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Answer (Please select your correct option)

☐ Trivial tree

☐ empty tree

☐ Spanning tree



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Question No : 2 of 52

Marks: 1 (Budgeted Time 1 Min)

A vertex of degree greater than 1 in a tree is called a

Answer (Please select your correct option)

☐ Branch vertex

correct

☐ Terminal vertex

☐ Ancestor

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Question No : 3 of 52

Marks: 1 (Budgeted Time 1 Min)

A circuit that consist of a single vertex is called

Answer (Please select your correct option)

☐ Trivial

correct

☐ Tree

☐ Empty

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Question No : 4 of 52

Marks: 1 (Budgeted Time 1 Min)

If a graph is a tree then

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Answer (Please select your correct option)

- ☐ it has 2 spanning trees
- ☐ it has only 1 spanning tree
- ☐ it has 4 spanning trees
- ☐ it has 5 spanning trees

correct

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Question No : 5 of 52

Marks: 1 (Budgeted Time 1 Min)

The logical expression $p \vee q$ will be read as

Answer (Please select your correct option)

☐ $p \text{ or } q$

correct

☐ $p \text{ and } q$

☐ $p \times q$

☐ $p - q$

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Question No : 6 of 52

Marks: 1 (Budgeted Time 1 Min)

If p = It is red,

q = It is hot

Then "It is not red but hot" is denoted by : $p \wedge q$.

Answer (Please select your correct option)

True

☐

correct

False

☐

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Question No : 7 of 52

Marks: 1 (Budgeted Time 1 Min)

If A, B and C are the subsets of a universal set U then $(A \cup B) \cup C$ is equal to

Answer (Please select your correct option)

☐ $A \cup (B \cap C)$

☐ $A \cap (B \cup C)$

☐ $\emptyset$

☐ $A \cup (B \cup C)$



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Question No : 8 of 52

Marks: 1 (Budgeted Time 1 Min)

The power set of a set A is the set of all subsets of A and its denoted by $P(A)$.

Answer (Please select your correct option)

False

☐

True

☐

correct

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Question No : 9 of 52

Marks: 1 (Budgeted Time 1 Min)

Identify the Associative law of union for three sets

Answer (Please select your correct option)

- ☐ $A \cup (B \cup C) = (A \cup B) \cup C$
- ☐ $A \cap (B \cap C) = (A \cap B) \cap C$
- ☐ $A \cup (B \cap C) = (A \cup B) \cap (A \cup C)$
- ☐ None of these

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Question No : 10 of 52

Marks: 1 (Budgeted Time 1 Min)

Let f and g be the functions defined by $f(x) = 2x + 3$ and $g(x) = 3x + 2$ then composition of f and g is

Answer (Please select your correct option)

☐ $6x + 6$

☐ $5x + 5$

☒ $6x + 7$



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Question No : 11 of 52

Marks: 1 (Budgeted Time 1 Min)

If $f(x) = 2x + 1$, $g(x) = x^2 - 1$ then $f \circ g(x) =$

Answer (Please select your correct option)

☐ $x^2 - 1$

☐ $2x^2 - 1$

☐ $2x^3 - 1$

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Question No : 13 of 52

Marks: 1 (Budgeted Time 1 Min)

Let f is defined recursively by $f(0) = 3, f(n+1) = 2f(n) + 3$ then $f(1) =$

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Answer (Please select your correct option)

- ☐ 9
- ☐ 10
- ☐ 18
- ☐ 21

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Question No : 14 of 52

Marks: 1 (Budgeted Time 1 Min)

If $1+2+3+\dots+n = \frac{n(n+1)}{2}$ for all integers $n \geq 1$ then $P(k)$ is

Answer (Please select your correct option)

- ☐ $1+2+3+\dots+k = \frac{k(k+1)}{2}$
- ☐ $1+2+3+\dots+n = \frac{n(n+1)}{2}$
- ☐ $1+2+3+\dots+(k+1) = \frac{(k+1)(k+2)}{2}$
- ☐ $1+2+3+\dots+(k-1) = \frac{k(k-1)}{2}$

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Question No : 15 of 52

Marks: 1 (Budgeted Time 1 Min)

In Mathematical Induction, inductive step is

Answer (Please select your correct option)

- ☐ $\forall k, P(k) \rightarrow P(n)$
- ☐ $\forall k, P(k) \rightarrow P(k+1)$
- ☐ $\forall k, P(k) \rightarrow P(n+1)$
- ☐ $\forall k, P(k) \rightarrow P(k-1)$

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$P(n)$ is called statement or

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Answer (Please select your correct option)

☐ sentence

☐ proposition

☐ inequality

☐ none of these

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Question No : 17 of 52

Marks: 1 (Budgeted Time 1 Min)

For all positive integer values of n , $5^n - 1$ is divisible by

Answer (Please select your correct option)

☐ 3

☐ 4

☐ 6

☐ 0

correct

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Question No : 18 of 52

Marks: 1 (Budgeted Time 1 Min)

An integer n is prime if and only if $n > 1$ and for all positive integers r and s , if $n = r.s$ then

Answer (Please select your correct option)

☐ $r = 1$ and $s = 2$

correct

☐ $r = 1$ and $s = 0$

☐ $r = 2$ and $s = 3$

☐ None of these

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Question No : 19 of 52

Marks: 1 (Budgeted Time 1 Min)

Quotient Remainder Theorem states that for any positive integer d , there exist unique integer q and r such that ----- and $0 \leq r < d$.

Answer (Please select your correct option)

☐ $n = d.r + q$

☐ $n = d.q + r$

☐ $n = r.q + d$

☐ None of these

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Question No : 20 of 52

Marks: 1 (Budgeted Time 1 Min)

The word ----- refers to a step-by-step method for performing some action.

Answer (Please select your correct option)

- ☐ Series
- ☐ Relation
- ☐ Algorithm
- ☐ Function

correct

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Question No : 21 of 52

Marks: 1 (Budgeted Time 1 Min)

The greatest common divisor of 27 and 72 is

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Answer (Please select your correct option)

☐ 27

☐ 9

☐ 1

☐ None of these

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Question No : 22 of 52

Marks: 1 (Budgeted Time 1 Min)

In how many ways can a set of five letters be selected from the English Alphabets?

Answer (Please select your correct option)

☐ $C(26, 5)$

☐ $C(5, 26)$

☐ $C(12, 3)$

☐ None of these

correct

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If one event can occur in n_1 ways and if for each of these n_1 ways, a second event can occur in n_2 ways, then the total number of ways in which both events occur is

Answer (Please select your correct option)

- ☐ $n_1 + n_2$
- ☐ $n_1 \cdot n_2$
- ☐ $P(n)_1 \cdot P(n)_2$
- ☐ $P(n_1) + P(n_2)$

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Question No : 24 of 52

Marks: 1 (Budgeted Time 1 Min)

An arrangement of objects without the consideration of order is called

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Answer (Please select your correct option)

- ☐ Permutation
- ☐ Combination
- ☐ Selection
- ☐ None of these

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Question No : 25 of 52

Marks: 1 (Budgeted Time 1 Min)

If the order does not matter and repetition is allowed then total number of ways for selecting k sample from n number of elements is

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Answer (Please select your correct option)

- ☐ n^k
- ☐ $C(n+k-1, k)$
- ☐ $P(n, k)$
- ☐ $C(n, k)$

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Question No : 26 of 52

Marks: 1 (Budgeted Time 1 Min)

If the order matters and repetition is not allowed then total number of ways for selecting k sample from n number of elements is

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Answer (Please select your correct option)

- ☐ n^k
- ☐ $C(n+k-1, k)$
- ☐ $P(n, k)$
- ☐ $C(n, k)$

correct

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Question No : 27 of 52

Marks: 1 (Budgeted Time 1 Min)

$A = \{1, 2, 3, 4, 5\}$ is a set of first five ----- numbers.

Answer (Please select your correct option)

- ☐ True
- ☐ natural
- ☐ even
- ☐ odd

correct

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Question No : 28 of 52

Marks: 1 (Budgeted Time 1 Min)

Among 200 people, 150 either play tennis or snooker or both. If 85 play tennis and 60 play tennis and snooker, how many play snooker?

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Answer (Please select your correct option)

☐ 125

☐ 225

☐ 85

☐ 25



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Question No : 29 of 52

Marks: 1 (Budgeted Time 1 Min)

A procedure that yields a given set of possible outcomes is called

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Answer (Please select your correct option)

Event

Outcome

Experiment



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Question No : 30 of 52

Marks: 1 (Budgeted Time 1 Min)

What is the probability of getting a number greater than 4 when a die is thrown?

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Answer (Please select your correct option)

☐ $\frac{1}{2}$

☐ $\frac{3}{2}$

☐ $\frac{1}{3}$

☐ 1

correct

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Question No : 31 of 52

Marks: 1 (Budgeted Time 1 Min)

If two fair dice are thrown, what is the probability of getting a double six?

Answer (Please select your correct option)

☐ $\frac{1}{6}$

☐ $\frac{1}{36}$

☐ 1

☐ $\frac{1}{2}$

correct

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Question No : 32 of 52

Marks: 1 (Budgeted Time 1 Min)

If A and B are two disjoint (mutually exclusive) events then $P(A \cup B) =$

Answer (Please select your correct option)

☐ $P(A) + P(B) + P(A \cap B)$

☐ $P(A) + P(B) + P(A \cup B)$

☐ $P(A) + P(B) - P(A \cap B)$

☐ $P(A) + P(B)$

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Question No : 33 of 52

Marks: 1 (Budgeted Time 1 Min)

If a fair die is thrown then what is the probability that a prime number appear?

Answer (Please select your correct option)

☐ $\frac{1}{2}$

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☐ $\frac{1}{6}$

☐ $\frac{1}{3}$

☐ $\frac{2}{3}$

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Question No : 34 of 52

Marks: 1 (Budgeted Time 1 Min)

If $P(A \cap B) \neq P(A)P(B)$ then the events A and B are called

Answer (Please select your correct option)

☐ Dependent

correct

☐ Independent

☐ Exclusive

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Question No : 35 of 52

Marks: 1 (Budgeted Time 1 Min)

If A, B and C are any three events, then $P(A \cup B \cup C)$ is equal to

Answer (Please select your correct option)

- ☐ $P(A) + P(B) + P(C)$
- ☐ $P(A) + P(B) + P(C) - P(A \cap B) - P(A \cap C) - P(B \cap C) + P(A \cap B \cap C)$
- ☐ $P(A) + P(B) + P(C) - P(A \cap B) - P(A \cap C) - P(B \cap C)$
- ☐ $P(A) + P(B) + P(C) + P(A \cap B \cap C)$

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Question No : 36 of 52

Marks: 1 (Budgeted Time 1 Min)

How many vertices will the graph have if it contain 16 edges and all vertices of degree 2?

Answer (Please select your correct option)

☐ 14

☐ 16

☐ 18

☐ 32

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Question No : 37 of 52

Marks: 1 (Budgeted Time 1 Min)

If a graph has any vertex of degree 3 then

Answer (Please select your correct option)

☐ It must have Euler circuit

☐ It must have Hamiltonian circuit

☐ It does not have Euler circuit

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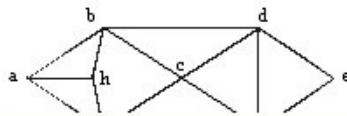
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Marks: 1 (Budgeted Time 1 Min)

The Hamiltonian circuit for the following graph is



Answer (Please select your correct option)

☐ abcdefgh

☐ abefgha

☐ abcdefgha

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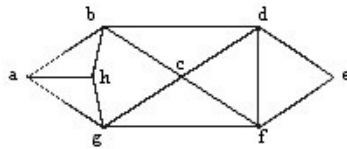
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Question No : 38 of 52

Marks: 1 (Budgeted Time 1 Min)



Answer (Please select your correct option)

☐ abcdefgh

☐ abefgha

☐ abcdefgha

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Question No : 39 of 52

Marks: 1 (Budgeted Time 1 Min)

Changing rows of a matrix into its columns is called

Answer (Please select your correct option)

☐ symmetric matrix

☐ transpose of matrix

☐ adjoint of matrix

☐ Hermitian Matrix

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Question No : 40 of 52

Marks: 1 (Budgeted Time 1 Min)

Two matrices are said to be conformable for multiplication if number of(a)..... of 1st matrix is equal to number of(b)..... in 2nd matrix

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Answer (Please select your correct option)

☐ (a) rows, (b) columns

☐ (a) columns, (b) rows

☐ (a) columns, (b) columns

☐ (a) rows, (b) rows

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Question No : 41 of 52

Marks: 2 (Budgeted Time 4 Min)

Find a non-isomorphic tree with five vertices.

Answer (Please [click here](#) to Add Answer)

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Question No : 42 of 52

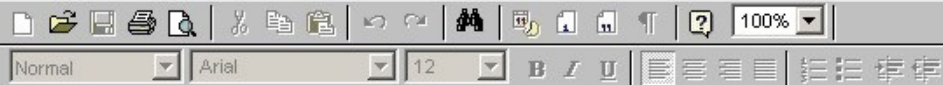
Marks: 2 (Budgeted Time 4 Min)

Construct input/output table for $P \wedge q$

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Answer ([Please click here to Add Answer](#))



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Question No : 43 of 52

Marks: 2 (Budgeted Time 4 Min)

If there are 3 different optional indoor games in 6 different optional outdoor games for students in sports week then find the number of choices for a student who wants to select one optional game.

Answer (Please [click here](#) to Add Answer)

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Question No : 44 of 52

Marks: 2 (Budgeted Time 4 Min)

Find the expectation μ of the distribution given in the following table.

x_i	1	3	4	5
$f(x_i)$	0.1	0.2	0.3	0.4

Answer (Please [click here](#) to Add Answer)

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Question No : 45 of 52

Marks: 3 (Budgeted Time 6 Min)

- i) Evaluate $P(5, 3)$
- ii) How many 5-permutations are there of a set of five objects?

Answer (Please [click here](#) to Add Answer)

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Assume that for the truth values $p = F$, $q = T$, $r = F$. Show that the proposition : $p \vee (q \wedge r)$ is true.

Answer (Please [click here](#) to Add Answer)

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Find the variance σ^2 of the distribution given in the following table.

x_i	1	3	4	5
$f(x_i)$	0.3	0.1	0.2	0.5

Answer (Please [click here](#) to Add Answer)

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Question No : 47 of 52

Marks: 3 (Budgeted Time 6 Min)

x_i	1	3	4	5
$f(x_i)$	0.3	0.1	0.2	0.5

Answer (Please [click here](#) to Add Answer)

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Question No : 48 of 52

Marks: 3 (Budgeted Time 6 Min)

Determine whether the following graph has Hamiltonian circuit, justify your answer.



Answer (Please [click here](#) to Add Answer)

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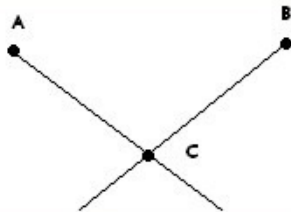
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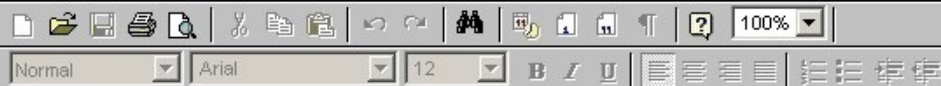
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Answer (Please [click here](#) to Add Answer)



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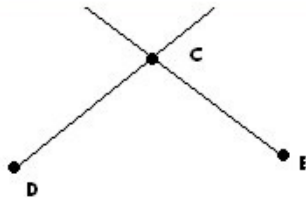
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Answer (Please [click here](#) to Add Answer)

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Prove that $A - B = A \cap B^c$ by using Membership Table.

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Answer (Please [click here](#) to Add Answer)

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Question No : 50 of 52

Marks: 5 (Budgeted Time 10 Min)

Find the GCD of 11425,450 using Division Algorithm.

Answer ([Please click here to Add Answer](#))

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Using handshaking theorem show that the maximum number of edges in a complete graph with n vertices is $\frac{n(n-1)}{2}$.

Answer (Please [click here](#) to Add Answer)

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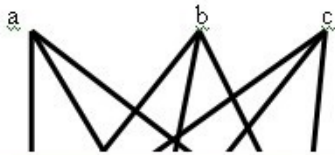
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Question No : 52 of 52

Marks: 5 (Budgeted Time 10 Min)

Determine whether the graph is planer. If so, draw it such that no edges cross.



Answer (Please [click here](#) to Add Answer)

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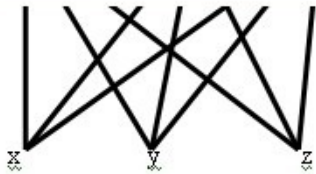
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Answer (Please [click here](#) to Add Answer)

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