

GENERAL KNOWLEDGE
FUNDAMENTAL RIGHTS

- the fundamental right of india is present in part -3 of indian constitution,under article 12-35 of indian constitution.
 - the fundamental right of india has borrowed from usa.
 - intially their are 7 fundamental rights in our indian constitution and at present 6 fundamental rights is their
1. right to equality {14-18}
 2. right to freedom {19-22}
 3. right against exploertation{23-24}
 4. freedom of religion{25-28}
 5. cultural and educational rights {29-30}
 6. right to property{31}
 7. right to constitutional remedies{32}
- right to property has been deleted by 44th amendment act 1978,and it is now present in article 300a of part 12 of our indian constitution.

Questions

1. Fundamental rights has been borrowed from which country constitution ?
2. Which article is called as “heart and soul” of indian constitution?
3. When right to property has been deleted who was the prime minister of india ?
4. Right to education comes under which article of indian constitution ?
5. Marshall law of army comes under which fundamental rights ?

ENGLISH LANGUAGE
COMPLEMENT

The word or phrase used to complete the sense is called the **complement**. A complement can be a noun, a pronoun, an adjective, an adverb, a participle, a preposition with object, a participle, an infinitive or an adverb.

NOTE: A copulative verb /linking verb always takes a complement

Example:

This book is mine.	He is a doctor.
The child has fallen asleep.	The girl seemed tired.
The boy continued weeping	This house is to let.
This cycle is of no use.	We are there.

Complement may be three kinds;

- (a) Subject complement
- (b) Object Complement
- (c) Adverbial Complement

Subject complement: it can be either Predicate nominatives (noun) or Predicate adjectives(adjective)

- **Subject complements are used only with linking verbs.**

Predicate Nominative: It renames the subject of a linking verb, e.g.:

They were experts. (Noun). Mr. Wilson is my history professor.

Predicate Adjective: It modifies the subject of a linking verb, e.g.:

They were hilarious. (Adjective); Your outfit looks terrific.

- The subject complement describes or adds more information about the subject.

- It functions as attribute of the subject.
- The subject complement, when it is a noun phrase cannot become the subject of a passive sentence.
Object complement: It may be a noun phrase or an adjective. e.g.:
 We proved him an honest man. We proved him honest.
- It generally follows a mono transitive verb
- It adds more information about the object.
- It functions as attribute of the object.
- The object complement cannot be used as the subject of a passive sentence.

Adverbial Complement: It can be a single adverb or a prepositional phrase

- It is an essential element in the sentence and can't be left out.
- In cases where it can be dropped, The meaning of the verb itself is changed. e.g.:

The old man lived **here** (dwelt or resided) The old man **lives:** (is not dead yet)
 He keeps her toys **in a box.** The program lasted **three hours.**

Directions: Identify the underline part of each of the following sentences.

1. After our disagreement on the first day of school, Jenny became my friend for life.
 (a) subject complement (b) object complement
 (c) adverbial complement (d) none of these
2. buck grew up in oklahoma and became an expert horse rider before reaching his 18th birthday.
 (a) subject complement (b) object complement
 (c) adverbial complement (d) none of these
3. i once considered nancy my fiercest enemy.
 (a) subject complement (b) object complement
 (c) adverbial complement (d) none of these
4. after reviewing the details of the case, the court pronounced the boy not guilty.
 (a) subject complement (b) object complement
 (c) adverbial complement (d) none of these
5. by the second month of the drought, the river had run dry.
 (a) subject complement (b) object complement
 (c) adverbial complement (d) none of these

ANSWER KEYS

1-a 2-a 3-b 4-b 5-a

REASONING

Find out total number of student

Formula to find out this type of question

Total number of student = (left end + right end)-1

1. Rajesh is 12th from both ends of a row. How many candidates are there in the row?
 (a) 13 (b) 25 (c) 23 (d) 24
2. Sahib is 12th from left and 15th from right end of a row. How many persons are there in the row?
 (a) 26 (b) 25 (c) 23 (d) 24
3. In a class of boys stands in a single line. One boy is nineteenth in order from both the ends. How many boys are there in the class?
 (a) 17 (b) 27 (c) 37 (d) 39

4. Mahi ranked ninth from the top and thirty eighth from the bottom in a class. How many students are there in the class?
 (a) 46 (b) 45 (c) 47 (d) 48
5. Ram ranked ninth from the top and thirty from the bottom in a class. How many students are there in the class?
 (a) 46 (b) 45 (c) 49 (d) 38

ANSWER KEYS

1. c 2. a 3. c 4. a 5. d

MATH

Concept: The biggest power of a prime number 'p' that divides n! is given by the sum of quotients obtained by successive division of 'n' by p.

1. What is the highest power of 7 that divides 1342!
 $[1342 / 7] = 191$
 $[191 / 7] = 27$
 $[27 / 7] = 3$
 Power of 7 = $191 + 27 + 3 = 221$
2. What is the highest power of 6 that divides 134! ?
 As 6 is not a prime number, we will divide it into its prime factors. 3 is the bigger prime, so its power will be the limiting factor. Hence, we need to find out the power of 3 in 134!
 $[134/3] = 44$
 $[44/3] = 14$
 $[14/3] = 4$
 $[4/3] = 1$
 Power of 3 in 134! = $44 + 14 + 4 + 1 = 63$
 What is the highest power of 9 that divides 134! ?
 As 9 is not a prime number, we will divide it into its prime factors. 9 is actually 3^2 . The number of 3s available is 63, so the number of 9s available will be $[63/2] = 31$.
 Highest power of 9 that divides 134! is 31.
3. What is the highest power of 27 that divides 134! ?
 As 27 is not a prime number, we will divide it into its prime factors. 27 is actually 3^3 . The number of 3s available is 63, so the number of 27s available will be $[63/3] = 21$.
 Highest power of 27 that divides 134! is 21.
4. What is the number of trailing zeroes in 42!
 Numbers of zeroes directly depends upon numbers of 5s. So, we need to find numbers of 5s.
 $[42 / 5] = 8$
 $[8 / 5] = 1$
 Power of 5 = $8 + 1 = 9$
 So, 42! has 9 trailing zeroes.

ODIA LANGUAGE
Kòådû \:

iù]ûeYZü IWÿò@û bûhûè 'jiòâu', 'aiòâu', 'ùLkòâu', '_Xÿòâu', 'ùbûR^', 'Mc^'
 AZÿùò ùMûUòG ùflûñG Kòådûò Kò«ê GMêWÿòK ùKøYiò Kkû-_êèh-aP^

âbéZòe]úeYú ù\K^újóö ùi[ô_úAñ GMêWÿòK 'KâòdúâPK aòùghý' eìù_èòPòZ ùjúA[ú@ú«òö Gjò KâòdúâPK aòùghýKê 'iò; Kâòdú' Kêjú~úGö ùijò_èò 'jîêQò', aiêQò', 'ùLkêQ«ò', 'jìòfú', 'Kù|òfú', '~òàê', 'LùAùà' AZÝú\ò ùMùUòG ùfLùGñ Kâòdú ùjuf ùjñ G[òeê Kùk-êêêh-aP^ _âbéZòe]eYú còkêQòö Gjò Kâòdú \Kê 'iù; Kâòdú' ùaúfú~úGö

iêZeúö ù~Cñ Kâòdúêê Kùk-êêêh-aP^ _âbéZòe]úeYú còk, ZújúKê 'Kâòdú_' Kêjú~úGö

1. KâòdúâPK aòùghýKê K'Y Kêjú~úG?

- (K) iò;Kòâdú (L) iùªKòdú (M) icù_òKùKòâdú
(N) @icù_òKù Kâòdú

2. ù~Cñ \eê Kùk-êêêh _âbéZòe]úeYú còk ZújúKê K'Y Kêjú~úG?

- (K) iò;Kòdú (L) iùªKâòdú (M) KòâdúâPK aòùghý (N) ùKCñUò aò ^êùjñ

3. 'jìòâú', 'aiòâú', 'ùLkòâú', '_Xÿòâú' GMêWÿòK ùKCñ Kâòdú \ iìPú@?

- (K) iò;Kòâdú (L) KâòdúâPK aòùghý (M) iùªKòâdú
(N) Cbùd (K) I (L) VòKp

4. iù]úeY Kâòdú \e @^ý^ú c K'Y iìPú@?

- (K) iò;Kâdú (L) iùªKâòdú (M) KâòdúâPK aòùghý (N) ùKCñUò aò ^êùjñ

5. ù~Cñ Kâòdú \eê Kùk-êêêh-aP^ _âbéZòe]úeYú iìPòZ jêG^újó ZújúKê ùKCñ Kâòdú Kêjú~úG?

- (K) iò;Kòdú (L) KâòdúâPK aòùghý (M) iùªKâòdú
(N) Cbd (K) I (L) VòKp

Còe

1-K, 2-L, 3-N, 4-L, 5-N

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