Vaibbav Bhagwat Harinkar 8408079028 Course No:- BOT-353. (IPR).

Q1. What is Intellectual property & describe for detail about GATT, WTO, TRIP, WIPO.

Ass- Intellectual property

Intellectual property beads the property representation the product emanating from creativity of the burgan whole, burgan fotellect of creative ideas.

original design, practical application of a sew idea, artistic creation, etc.

- * GATT (General Agreement on Tariffs & Trade).
 - -) GATT was signed an 1947, and come anto force on 1 January 1948 signed by 23 states.
- -) It was amended to 1986 & lasted uptil 1993 when the was replaced by who (world reade organisation) to 1995.
- The united nations, which provides better and wider protection for the privat patent holders of the developed nations.

- than the parts convention.
- -> GATT was the outcome of the failure of begotiating governments to create the International Trade organisation (ITO).
- The purpose of GATT was explained as the substantial reduction of tariffs and other trade barriers and the elimination of preferences.

 On a reciprocal and nutually advantageous basis.
- -) under the GATT, & Rounds of negotiations took place to liberalize world trade.
- -> The first round begin in 1986 & ended on

* WTO (World Trade Organisation)

- -) WTO is the successor organization to the general Agreement on Tarrits & Trade (GATT).
- TO 1995 WTO was established, which replaced the GATT, There were 3 Rounds under WTO.
 - 1. seattle Round (1989)
 - 2. Doba Rousd (2001)
 - 3. cascus Rousd (2003)
- -> WITO Potends to supervise & liberalise Poterbational trade and officially commenced on a January 1995.

-> It had 157 members of which 117 are developing countries.

- -> The beadquaters of WTO is at Geneva, suffree land.
- -> Its activities are supported by a secretariat of 700 staffs, led by the WTO birector General.
- -> There are 3 official languages of who
 - i) English
 - ii) French
 - il) spanish.

Benefits of WTO

- * system belps in promoting peace.
- * Helps In dispute settlement.
- * makes owes that make 1992 casier.
- * conducts free trade that cuts the costs of living.
- * Provides more choice of Products & qualities.
- * Income that is due is valsed.
- * system encourage good government.

Activities of WTO

- -> regotiation to reduce or endicate hindronces on trade and agreeing on rules that govern the conduct of forernal trade.
- -> Educating public about wro, Its mission and Its activities.
- -> cooducting economic research.
- -> co-operating with other international organization.
- -> Assisting the accession of 20 non-nember countries.

29itogot 0TW *

- 1. GATT General Agreement on Tariffs & Trade.
- 2. GATS General Agreement on Trade & services.
- 3. TBT Agreement on rechnical Barriers to Trade.
- 4. AGP Agreement OD Government Procurrent.
- 5. sps- Agreement on the application of sanitary and Phytosopitary neasures.
- 6. STRIMS Agreement on trade related Investment measures.
- of Intellectual Property Rights.
- B. Agreement of Agriculture.
- * TRIP (Trade-Related Aspects of Interlectual Property Rights).
- -> The TRIPS agreement come finto effect on a social gas.
- The provides standards for the full mange of Intellectual property rights of also the enforcement of those standards both faternally of through legal and administrative actions.
 - -3 The general timetable for finally menting the TRIPS agreements is 1 years for findustrialised countries, 5 years for developing countries and countries shifting from centrally planted economics, 10 years for least develop countries.

- * The Agreement covers 5 broad issues.
- 1. Application of basic principles of the teading system and other international intellectual property programme.
- 2. Methods used for the adequate protection of fortelectual property rights.
- 3. Enforcements of those rights sufficiently and adequately in their own territories.
- 4. setting of disputes on fotellectual property wights between members of the wito.
- 5. special transitional arrangements during the period when the new system is being fortroduced.
- * The TRIPS Agreement has 3 basic features. *
 - 1. standards: The agreement sets out the minimum standards of protection that has to be provided by each members of country.
 - 2. Enforcement: It deals with the foternal methods or procedures for the enforcement of IPR.
 - B. Dispute settlement

 The agreement makes disputes between who

 members in respect of TRIPS obligations subject

 to the wrois dispute settlement procedures.

- * Basic Polociple of TRIPS *
- 1. It makes fit compoulsory for the members countries to provide Patents.
- 2. It mandates patenting of micro-organisms, microbiological & non-biological processes.
- 3. The members are allowed to make only limited exclusions from patentability.
- 4. Its also gives option to the states for protections new plant marieties through patents or through the effective sui generals system.

* WIPO (World Istellectual Property organisation).

- WIPO is a specialized agency of the united nations which is dedicated to ensuring that the rights of creators and owners of intellectual property are protected worldwide.
- It is responsible for the administration of various multilateral treaties dealing ofth the legal and administrative aspects of enterlactual property.
- It was the first origins between the formed to help the forestors of one country to obtain protection to other countries for their creation or thresion.

03. Define IPR & write in detail about its

Ans: - IPR (Intellectual property Rights)

Intellectual property rights refers to the general term for the assingment of property rights through patents, copyrights 5 trademonts.

Types of IPR

Istellectual property Rights can be broadly divided foto two categories.

A] Industrial property

- ij Patents
- II] Designs
- III Trade marks
- ivi Geographical Indications -
- VI Integrated circuits, vil Trade secretes.

B] copyright.

A) Industrial property :- Industrial property mainly consists of patents, designs, and trade marks, potent are smarted for inventions, determining the appearance of industrial products, Trademarks are issue for identification of the many facturer or vendor of the product, whereas copyright

relates to artistic and literary creation such as poem, novel, painting, computer software etc.

Legislations on Intellectual Property Rights.

The Producers for great of these Intellectual property Rights in India have been formulated from time to time. At present the following regislations on intellectual property Rights are in force in India.

- 1. The patents Act, 1970 as amended by. The patents patents Act 2005 along with the patents rules 2005.
- 2. The Design Act 2000 Along with the Design Rules, 2001.
- 3. Trade Act 1999 with Trade marks Rules, 2002.
- 4. The Geographical Indications of goods Act., 1999

 along with the Geographical Indications of goods

 Rules 2002.

- -> Provide Bervices for Enternational application for Endustrial Property rights.
- -> Exchange intellectual property information among member countries.
- -> provide legal & Technical assistance to developing and other countries.
- -> Respond the private disputes on fatellectual property and harmonizes the fatellactual property law and procedures.
- -> CUIPO was established by the convention in 14 July 1967, which entered into force in 1970.
- od fur sishing of document.
- -> A similar agreement on cooperation between .
- -> WIPO has promoted the interaction among different stakeholders at the national level to include, eq agriculture, health, science for the production of the control of

- Q2. Write down treaties for IPR protection,... Budapest, Berne convention, Madrid Protocal.
 - # Budapest Treaty of the Poternational Recognition of the Deposit of microorganisms for the Purpose of patent procedure Done at Budapest on April 28, 1977. and amended on september 26, 1980.
 - # Berne convention #

 Berne convention for the protection of

 Literary and Artistic works.
 - * moderial Protocol *

 The moderial Agreement and Protocol are open to any state party to the parts

 convention to any state party to the paris convention for the Protection of Endustrial Property (1883).

patent is an exclusive right granted by the Governent to the application for his disclosed fivention of Industrial product or process which should be new, non-obvious, useful and patentable as per the patentability criteria laid down in the national law. A patent offers technical solution to a technical problem, government provides legal protection for a limited on his invention.

ii] <u>Designs</u>

- -> Designs means only the features of shape, configuration pattern, or nament, composition of colour or line or combination there of.
- The sust be applied to any article, whether two dimensional or the both forms, by any findustrial process or means, which for the finished article appeal to and are Judged solely by the eye.

Benefits of Design

- -> Registration of a design confers upon the registered proprietor the exclusive right to apply a design to the article for a class for which the design has been registered.
- -> Industrial designs are of great commercial value because shape or configuration of the article can often be a great selling point.

111) Trade Marks

- of word, name, logo, label, etc.
- Trademarks Indicate origin of manufacture or service or vendor in that respect and enable customers to distinguish the product.
- of one manufacturer from the goods of the
- -> When proposity advertised, The trade mark becomes an effective instrument to attract the customer.
- extensive use to public, becomes popular and extensive use to public, becomes popular and eventually results to acquiring an exclusive right, which can be legally enforced by the owner of the mark.
- Trademark belos the consumer to answer the question, " who makes the product or who has provide the service? eg-coca cala, sony, TVs, Bajaj, lic etc.

Non- Registrable Trademark

- * Top should not belong to the class of morks prohibited by Law eg-Emblem of India as per the Emblen and names (prevention of Inproper use) Act, 1950.
- * TM should not contain obscene matter and should not burt religious or sacred feelings of any oftinen.

- iv) Acographical Indication
- Jet identifies agricultural, natural or manufactured goods, originating from a definite territory. It is an indication or appellation of the origin of a particular product.
- For the purpose of qualifying for geographical foodication protection, the goods about how special qualities or characteristics or reputation based upon the climatic or production charecteristics which are unique to the geographic location.

 eg- Darjeeling Tea, Basmati Rice, Magpur orango, Paitan-Paithani, Nashik Grapes, etc.
- -> Goods means such goods as Agricultural, natural or manufactured goods, as originating or manufactured used in the territory of a country or region or locality in that territory, where a given quality, reputation or other characteristic of such goods is essentially attributable to its geographical origin.
- or figurative of can be any same, geographical or figurative especially of them, conveying or coitest especially or coitest especially as the geographical or figurative representation or coitest of them, conveying of them, conveying the geographical or gipling of goods of them or coincides the special or coincides of them or coincides of them of goods
- -> Better KDOWD Asian Geographical Indications

 are- Basmati Rice, Josmine Rice(Thailand), Thai silk,

 Dhaka muslin, Bhutan Red Rice, Ceylon Tea,

 etc.

- * Benefits of Geographical Indication *
- -> GI confers legal protection to geographical fodications.

 On India and prevents unauthorized use of a registered geographical fodication by others.
- toost exports of Indian geographical folication by Providing legal Protection.
- of goods produced an geographical territory.

2] copy Rights.

- -> copyright is protection that covers published and unpublished, literary, scientific and artistic copyRight relates to the exclusive right to do or authorize to a cortain acts in relation to original Literary, dramatic or musical work, artistic creations (paintings, photographs, work of architecture, artistic creaftsmanship) cinematographic films, sound Recording, software programme, etc.
- -> copyrights is not given for just an idea, but subsists only in the material form to which the ideas are translated or expressed.
- or reproduction of the authors work amounts to first general. But, a for dealing with the work for private use i.e. study, research, review, critism, etc without an intention of commercial gain is not an intention of commercial gain is

- 034. Patent Law & Act 1970 and explain to brief about patent Act.
- ADS => The patent Act 1970, along with the patents

 Rules 1972, came to to force on 20th

 April 1972. Replacing the fooding patents

 and designs Act 1911. The patents Act

 was largely based on the recommendations

 of Ayyangar committee Report headed

 by justice N. Rajagopala, Ayyangar one

 of the recommendations was the

 allowance of only process patents with

 regard to forestions relating to drugs,

 medicine, food and chemicals.

History

- * The patent Law of 1856
- * The patent and designs Act, 1911.
- * The patent Act, 1970 & RWes 1972.
- # The patent amendment act 2005.

what is a patent

A patent is a grapt from the government which confers on the guarantee for a limited period of time the exclusive privilege of making, salling and using the finential for which a patent has been grapted.

purpose of getting a patent

- of the exclusive rights over the
- * The patent is to ensure connectial returns to the forestor for the time and money spend to generating a new product.

saliest Features

- 1. Both product and process patent provided.
- 2. Term of patent 20 years
- feaupso co coipocionas. E
- 4. Both Pre-grapt and Post-grapt opposition.
- 5. Fast track mechanism for disposal of appeals
- e. Provision for protection of bio-diversity and traditional knowledge.
- 4. Publication of applications after 18 months with facility for early publication.
- 8. substantially reduced time lines.

Stages From Filling To Grant of A patent.

criteria for patenting

- a) Noverty
- deb svitasvar (d
- c) capable of Industrial application.

Novelty

The Povention should not have been published to India or elsewhere.

should not have been in Prior public knowledge or public use in India.

Inventive step

"Inventive step" beans a feature of an fovention that foventes technical advancement. as compared to the existing knowledge or having economic significance or both and that makes the fovention not obvious to a person skilled for the art.

capable of Industrial Application.

capable of foduction application, for relation to an invention means that the fovention is capable of being made or used for all foliation.

Who can apply for a patent

- 1. Any person claiming to be the true and first shreutor of the shreution.
- 2. Any person being the assignee of the person claiming to the true and first florentor for respect of the eight to make such an application.

e. By the legal representative of any decreased person who immediately before his death was entitled to make such an application.

patent Office

Head Office - Kolkata

Branch offices at

* Mumbai

W Delhi

* CHEDDOI

Procedure For Filling to apart of A patent

step 1. Obtaining A patent

- -> rile an application for patent
 - i) with one of the patent offices based on territorial jurisdiction of the place of office or residence of the application | agent.
 - is pay the required fee.
 - in All Potos mation concerning tees of other details quailable at www.ipindia.oic.fo.

Step :- 2. Formality check.

As Examiner checks the formal requirements before accepting the application and the fee - this is done formediately.

Issue of application oursber and the costs

receipt - this is done the same day.

post, cash receipt, application oursber is sent by post within 2-3 days.

step: - 3 Formality check

Application is kept secret for a period of 18 months from the date of filling.

- nade available on the website weekly.
- -> Application has an option to get his application published before is months also.
- -> In that case, application is published within

steps: 4 Request For Examination

Application is examined on request Request for examination can be made either by the applicant or by a third party.

A period of 48 months, from the date of filling, is available for waking request for examination.

etep: z Examination

A pplication is sent to an examiner within a worth from the date of request for

examination.

Examiner undertakes Examination, wist.

- i) wheather the claimed invention is not proprieted for growt of patent.
- ii) whether the shveption meets the criteria of patentability.

step 6:- Issue OF FER.

- -) A period of 1-3 mosts is quailable
 to examiner to submit the report to
 the costroller.
- assess the examiner's report.
- First examination Report (FER)

 coptaining list of the objections is issued within 6 months from the date of filling of request.

step 7: Response From The applicant

- of FER, is available to the applicant to neet the objections.
- is approved by the controller-Within a period of 1 month.

Step 8 :- Pre - Grant Opposition.

- -) After Publication, an opposition can be filed within a period of 6 months.
- -> oppositually of bearing the opponent is also quailable

step 9: - Examination of pre-Grant opposition.

- applicant.
- -> A period of a month is allowed for receipt of response.

step 10% - consideration of pre-apant opposition.

- -> After examining the opposition and the controller may.
 - Either reject the opposition & grown the patent.
 - Accept the opposition and modify I reject the patent application.
- -) This is to be done within a period of 1 month from the date of completion of opposition proceedings.

stage 11: Grapt of A patent

-> A certificate of patent is issued within 7 days.

- -) Grapt of Patent is published in the official journal.
- of filling the patent application.

Patent claims.

As claims to a patent define boundaries of the invention claimed, a product or process patent will be forminging of the falls within the scope of a claim to the patent.

Types of patent claims.

Essentially, claims are of two types

- i) Independent claims.
- ii) Dependent claims.

Independent clasins.

They are retand alone, claims that do not bear reference to any other claim. It contains a preamble and all the elements necessory to define the forestion.

The first claim is usually an independent claim that sets the tope for the protection claimed by the forential. Independ claims are usually broder as compared to the dependent claims so as to prevent potential

anfoingers from chocum ventine the independent claim to any which way.

Independent claims may be of three types

- · A claim for a thing.
- A claim for a method of making
 a twing
- · A claim for a method of using a thing

2. <u>Dependent</u> claims

Dependent claims always bear reference to an earlier claim or independent claim and limit their scope.

pependent claims are therefore relatively norrow as they limit the scope of an earlier claim. Further, dependent claims refine the scope of protection sought for an fovention.

as Discuss an detail about International union for the protection of new varieties of plant.

(voqu)

Aos=> origin

The Upov is an intergovernmental organization
with headquaters in acceptant of upov

The current secretary - General of upov

(s proncis Guary.

of Plants (UPOV). (

History

upov was establish by the fotespational upov was establish by the frotection of sew convention for the protection of sew varieties of plants. The convention was adopted to paris to 1961 & remised to 1972, 1972 and 1991.

The objective of the convention is the protection of sew varieties of flowts by an intellectual property right.

Upon aims to encourage the development of new varieties of flowts for the hender the hender the hender the hender the henderits of society.

new variety must neet four criteria usder the rules established by upov.

1. The sew that must be sovel, which wants

that fit must not have been proviously marketed for.

- a solution solution of their available varieties.
- et isase oand holdsip tena stude out
- 4. The trait or traits unique to see variety out to be stable so that the plant remains true to type after repeated cycle of propagation.

Members

As of october 2, 2015 the 74 pointies were members of upov.

- D African intellectual property organization,
- es Albavia
- ⇒ Vedenjina:
- 4) Australia
- s) selgium
- 6) Balivia
- 1) Brasel
- g) casada
- ecido (e
- 10) Germany
- WEST (11
- 12) Japas
- 3) Mexico
- 14) kenya.

system of protection.

The convention defines both how the organization must be governed and our, and the basic concepts of Aawt variety protection that must be focused to the union. These concept finclude -

- 1. The contests for Dew Mondety to be protected: Novelty, districtness, uniformality, and stability.
- 2. The process for application for a grant.
- a upproved property rights conferred to an
- 4. Exceptions to the rejents conferred to
- I. Require duration of breeders right.
- e. Events fo which a breeder's rights oust be declared oull and void.

Q7. Write about PPV & FR Act 2001 of India.

Plant breeder right, & Registration of Aant

varieties under PPV & FR Act 2001.

Abs :-

The protection of plant varieties and Farmers, Right Act was pass by the Podia govt. In 2001. The sui generis system for protection of plant varieties was developed streggating the rights of breeders, farmers and willage communities, and taking care of the concerns for equitable sharing of benefits.

Objectives of The Acts.

- 1. 70 provide for the establishment of an effective system for protection of flast variety
- 2. To Provide for the rights of formers & plant breeders.
- s. To stimulate sovertment for research and development and facilities growth of the seeds solutions.
- 4. To besure availability of high quality seeds and planting materials of improved varieties to farmers.
- 5. To provide protection to flaut varieties.
- 6. To promote growth of seed Godustry to, available high quality seeds.

- 7. To Protect Rights of Faremers.
- 8. TO Protect plant breeder rights to stimulate sovertwent for research.

SALIENT FEATURES OF THE PPV& FR ACT 2001.

- 1. Period of Protection
 - The certificate of registration issued under section 24 or sub-section 8 of section 23 shall be valid for 9 years in the case of trees & wines and 6 years in the case of other crops may be reviewed and renewed for the remaining period on, payment of such fees as may be fixed by the rules made, subject to the coodition that the total period of validity shall not exceed—
 - i) In the case of trees & vides, 18 years from the date of registration of the voriety.
 - is the case of extant harbety, is year from the date of registration of that harbety.
 - of registration of the harsety.

2] Breeder Rights

The certificate of registration for a variety issue under this act shall confer an

exclusive origint on the breeder or his successor or his agent or license, to Produce, sell, winket, distribute, for or export of their variety.

3] payment of Abbual Fees.

The Authority may, with the prior approual of the central Government, by notification in the official Gazette, Indexe a fee to be paid annually, by every breeder of a variety agent and licensce there of registered under this act determined on the basis of benefit or royalty gained by such breeder agent or license, as the case may be, in respect of the variety, for the retention of their registration duder this act [section 35 (1)].

Researchers Rights

This section states, mothing contained to this

Act Gall prevent the use of any variety

registered under this Act by any person as

an foitial source of a variety for the.

purpose of creating other varieties provided

that the authorisation of the breeder of

a registered variety is required where the

repeated use of such variety as a

parental line is pecessary for commercial

production of such other bealty developed

variety:

4] Farmers Rights

The farmers Right of the act defice the privilege of farmers and their right to protect varieties developed or conserved by them. A farmers can save, use, sow, resow, exchange, ishare and sell farm produce of a protected variety except sale under a commercial marketing arrangement. Further, the farmers have also been provided protection of innocent infrigement when at the time of infringement a farmer is not aware of existence of breeder right (section 42).

E] <u>Communities</u> Rights

The rights of the communities as defined, provide for comprensation for the contribution of communities for the evolution of new varieties for quantums to be determined by the PPVFR Authority (section 41).

6] Registration of essentially devined unvieties.

The breeder of the essentially derived variety shall have the same right as the plant breeder of other; sew varieties which sociate production, selling, marketing, and distribution sociating export & Import of the variety.

7] com pulsory license

The authority can grant compulsory license to case of any complaints about the availability of the seed of any registered workty to public and reasonal point. The license can be granted to any person inspressed to take up such activity after the period of three years from the date of issue of certificate.

81 Benefit Ghaming

Sharing of benefits accorning to a breeder from a noriety developed from indegential devined plant genetic resources has also been provided (section 26 (1)). The authority may bruite claims of beterit sharing of any monety registered under the Act, and shall determine the quantum of such award after ascertaining the extent and nature of the benefit claim, after providing an opportunity to be beard, to bath the plant breeder and the claimer.

- * Procedure for Registration (Protection) under the PPV & FR Act 2001. *.
- to fortial screening by the PPVS FR Authority.
- -> After initially screening fit is formally acknowledged and thereafter throughly examined additional formation.

Jahan Hamman Skoboloozo

- a) Denomination assigned to such variety by applicant.
- b) An affidavit swoons by the applicant that such variety does not contain any gene or gene equance finalway terminator technology.
- of the application should be the such form as may be specified by regulations.
- d complete resport data of the parental lines from which the variety has been desired along with the geographical location in the geographical location in India from whome the genetic waterial has been taken and all such information relating to the contribution, if any, of any former, willage community, institution or organisation in breeding, evolving or developing the variety.
- ed A statement containing a brief description of the natiety.
- fl be accompanied by such fees as may be prescribed.
- ell cootain a declaration that the genetic material or parental material acquired for breeding.
- is se accompabled by such other particular as way be prescribed.

- Nous: Novelty, Distinctiveness, uniformality, and stability.
- Dus :- Distictiveness, Uniformality, Stability.
- * Development of Dus Test Guidelines and batabase of extrapt potified varieties *
- -) Thirty- five crop species were selected to the first would and Dus test procedures on the pattern of union protection of plant varieties (upov) were framed by the core Group of experts.
- The covered crops are Rice, Wheat, Maise, sorghum, pearl millet, Chickpea, Pigeon pea, Mungbean, Backgrom, Lentil, pea, Kidney bean, sunflower, castor, secondant, Lineard, Rapeseed, Mustard, soybean, Groundout, sugarcane, Lucern, Berseem, cawliflower, cabbage, Brinjal, Okra, potato, onion, Garlic, Tomato, Tute, cotton, Rose & Chrysonthemum.
- → Data were generated as per the provisional Dus guidelines by the concerned project Directors / project coordinators (PDIPG).
-) but a generation for different states of distinguishing charecters of reference.
- -> Example varieties has been completed by concerned PDIPCs. Generated data were collected and

digitized by NBPGR UDDER the PVP scheme.

A database of varieties and typosids of the above mentioned thirty - five identified crops, released the All India Coordinated programme and notified under the seed Act, 1966 since 1987 till now, has also been created Jointly by the NBPGR & Directorate of seed Research (DSR) under the pvp scheme (Mth:11www.nbpgr.expet.in/norv/index.aspx).

Procedure por Registration

- 1. submission of application form + technical questionnaire along with the registration fees.
- coitalifae to coitanimexs yeardimiles of application is done.
- 3. If application for proper share then according ledgement receipt issue
- 4. File sorting done and unique numbers allotted to each application.
- E. After unique number given to application, contenius soft boursei continuity.
- 6. Examination report submitted to registros, Report discussed and verified.

7. communication is made with the applicability for coits working for locking formation.

Jahnar Harringan Stranger Language

0,8. What is Researcher & Farmers Rights, Traditional knowledge meaning & Right of TK holders.

Aps 8-

Researcher Right

The researchers have been provided access to Protected varieties for boxafiede research purpose (section so). This section spates, Nothing costaised in this Act shall prevent use of any variety begistered under this act by any person using such variety for conducting experiments or research and the use of a variety by person (as an initial source of a for the purpose of creating other variety provided that the authorisation breeder of a registered variety is required where the repeated use of such variety as a famental line is becessory for compraid production of such other newly developed variety.

The farmer's right's of the Act define the Privilege of farmers and their right to Protect varieties developed or conserved by them A farmers can save, use, sow, reaw, exchange, shore and sell farm produce of a protected variety except sale under a commercial marketing arrangement (branded seeds)

- -) Further, the farmers have also been provided protection of innocent infrigement when at time of infringement a farmer is not aware of existence of breeders rights.
- -> A farmer who is engaged in the conservation of genetic resources and wild relatives of economic plants & their improvement through selection and preservation what he entitled in the prescribed manner for recognition and reward from the gene fund.
- -> provided the material so selected and preserved was been used as donors of genes to varieties registerable under the Act.
 - resol can brown audivos secons teda]

Traditional Knowledge (TK).

Traditional Koaledge (TK) is Koaledge, Koalhow, skills and Practices that are developed,
sustained and passed on from reperation
to generation within a community, often
forming part of fits cultural or
spiritual identity.

Rights of TK holders.

- 1. Defensive protection
 - Defensive protection refers to a set of etradegies to ensure that third parties do not gain illegitimate or unfounded IP rights over TK.
- 2. positive Protection
 - TWO aspects of positive protection of
 - 1. Preventing upauthorized use, and,
 - 2. Active exploitation of TK by the originating community fiself.

G.g. Write About convention on biological diversity, International Treaty on Flant genetic Resources for food & Agriculture (ITPGRFA). Indian Biological diversity Act, 2002 & ft Galineut features, access & benefit Graing.

Ans:- Biological Diversity.

Biological diversity is the variability among the living organism from all sources including terrestrial, marine & other aquatic ecosystem & ecological completices in which they are the part and this includes diversity within species between species and of the ecosystem. A concise tentination of biodiversity is the totally of genes, species & ecosystem in a region.

There are 3 hirachial level of Biodiversity

1. Genetic Diversity

of a species.

2. species of diversity.

species diversity refers to the variety of species within a region.

a. community & ecosystem diversity

A community in a group of population of different species in a given area. depending upon the availability of biotic s abiotic resources & condition of the environment on ecosystem developed its own characteristics commercily of living organism.

.IT PGRFA.

The sterbational treaty on plant genetic Resources for Food & Agriculture Forwardy known as the sternational seed treaty, is a comprehensive sternational agreement of hormony with the convention on biological diversity, which aims at guaranteening food security though the conservation on exchange & sustainable use of worlds flout genetic resources for food and agricultural as well as the fair & equitable benefit snaring arising from sts use.

Ibdian Biological Diversity Act 2002.

Biodiversity

The variability among liwing organism from all sources & the biological complexes of which they are part, and include diversity within species or between species and of ecosystem.

Levels of Biodiversity

1. Genetic diversity 2. species 3. community!

diversity diversity.

Few for facts about Isdia.

- -> India is one of the 17 mega-diverse contry in the worlds.
- -> With only 2.4 % of the worlder once, and accounts for 7-8% of the worlder seconded plant & animal species.
- -) 4 bout 5,150 Flant species and 1837 animal species are endernic to India.

Biological Act 2002,

An Act to Provide for conservation of biological diversity, sustainable use of fits components and fair and equitable sharing of the benefits arising out of the use of biological resources, knowledge & other watters connected the rewith or foldered therewith or foldered thereto.

salient Features

- To regulate acess to biological resources,
- · To conserve and sustainably use biological diversity.
- · To respect & protect knowledge of local communities related to biodiversity.
- TO secure showing of benefits with local people as conservers of biological resources and holders of knowledge & Potorwation relating to the use of biological resources.
- · protection & rehabilation of threatened SPP.
- Involvement of Postitution of State gov. In the broad scheme of the implementation.

convention on Biological diversity (CBD)

- The convention is founded on the principle that 10001 Communities generates and are dependent on biodiversity and should continue to benefit from it.
- India became a signatory to the convention on biological diversity (CBD) for stb day of june 1992.

Three goals of CBD.

- 1. To promote the conservation of biodiversity.
- 2. The sustainable use of 9ts components.
- s. The fair and equitable sharing of benefits arising out of the utilization of genetic resources.

The structures of Biodiversity Act - 2002,

- 1. National Biodirersity Authority (NBA).
- 2. state Biodiversity Boards (SBB)
- a. Biodiversity manegment committees (BMC).