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Code · SB122FUIL 1190

St. PAUL EDUCATION CENTRE SECOND YEAR BIOLOGY(FULL)

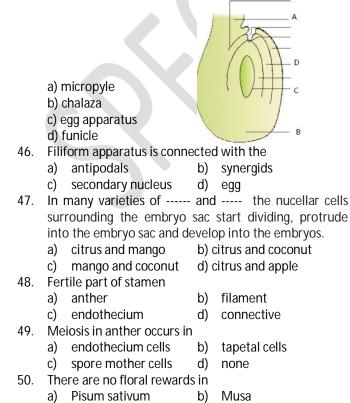
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1.	Perisperm is found in		c) deposition of extra fat in liver
	a) black pepper and mango		d) protein deposition in liver
	b) black pepper and orange	19.	A method of birth control is
	c) black pepper and beet		a) GIFT b) HJF c) IVF – ET d) IUD'S
n	d) black pepper and coconut	20.	The type of RNA specifically responsible for directing
2.	Find one true fruit from the followinga) Appleb) strawberry		the proper sequence of aminoacids in protein synthesis
	a) Apple b) strawberry c) Peanut d) all the above		is
3.	Raising plants for flowers is		a) r–RNA b) t–RNA c) m–RNA
	a) agriculture b) horticulture		d) chromosomal RNA
	c) olericulture d) floriculture	21.	LSD is
4.	After fertilization which of the following will not		a) Narcotic b) Stimulant
	degenerate in a flower?		c) Article present d) hallucinogen
	a) antipodals b) synergids	22.	Which blood group is a universal recipient
_	c) secondary nucleus d) all the above		a) O b) AB c) B d) A
5.	Identify the plant in which fruit contain large number	23.	If the codon of mRNA is AUG what should be its
	of tiny seeds a) orchid b) orobanchae		anticodon on tRNA?
	c) striga d) all the above		a) TAC b) AUG c) UAC d) CUA
6.	The hormone responsible for development of male	24.	It is not immunity related disease
	secondary sex characters are		a) AIDS b) Polio
	a) Testosterone		c) Cancer d) Small pox
	b) Interstitial stimulating hormone	25.	Monocytes and neutrophils are important cells
	c) Estrogen d) Progesterone		participating in
7.	The intra uterine devices are used to prevent		a) perform production b) phagocytosis
	a) sperm to reach the egg		c) passive immunity d) antibody production
	b) sperm to reach the female	26.	Genetic constitution of klinefelter's syndrome is
	c) the sperm from living		a) 44 + XXY b) 44 + XOC
	d) all the above		c) 42 + XXXX d) 44 + XX
8.	How many letters are used in genetic code?	27.	Which of the antibody is concerned with allergic
	a) 1 b) 2 c) 3 d) 4		reactions?
9.	Marijuana is extracted from		a) IgE b) IgG c) IgM d) IgA
	a) dried leaves and flowers of hemp plant	28.	In E. Coli the lac operon is induced by
	b) ergot fungus c) root of hemp plant		a) Lactose b) Igene
	d) cocoa plant		c) Promoter d) β – galactosidase
10.	Genes are located on	29.	Chromosome number of Down's syndrome is
	a) ribosomes b) lysosomes		a) 46 b) 47 c) 23 d) 45
	c) centrosomes d) chromosomes	30.	Ozone protects the biosphere from high energy
11.	Incomplete division of egg during cleavage is known as		a) Infrared rays b) Ultraviolet rays
	a) meroblastic b) holoblastic		c) X rays d) Gamma rays
	c) meridional d) spiral	31.	The chromosome that determines the male sex in
12.	Carrying capacity of environment is determined by		human is called
	a) birth rate b) death rate		a) X– chromosome b) Y – chromosome
	c) limiting resources d) population growth		c) W – chromosome d) Z – chromosome
13.	Which RNA does not help in protein synthesis?	32.	Crow also incubate eggs of
	a) tRNA b) r – RNA		a) Piegeon b) Cuckoo
	c) mRNA d) p– RNA		c) Dove d) Weaver bird
14.	A suckerfish on shark could exemplify	33.	Inheritance of ABO shows
••	a) parasitism b) commen salism		a) polyploidy b) incomplete dominance
	c) mutualism d) neutralism		c) multiple allelism d) polygeny
15.	Wobble hypothesis was proposed by	34.	July 11 is observed as
10.	a) Crick b) Watson		a) world population day
	c) Pasteur d) Lavoiser		b) not tobacco day
16.	When the phenotypic and genotypic ratios resemble in		c) world environmental day
10.	the F_2 generation, it is an example for	0.5	d) world health day
	a) complete dominance b)Incomplete dominance	35.	'Genetic engineering experiments' EcoRI can generate
	c) Dihybrid cross d) Test cross		a) blunt end cutting
17			 b) blunt or sticky end cutting c) sticky end cutting d) all the above
17.	The developing ovarian follicle produces a) FSH b) LH c) progesterone and estrogen	36.	c) sticky end cutting d) all the above 'The integration of natural science and organisms
	, , , , , , , , , , , , , , , , , , , ,	50.	cells, parts thereof, and molecular analogues for
10	d) estrogen		products and services'. This statement is connected
18.	Alcohol addiction is harmful because it causes		with
	a) cancer b) rise in blood sugar level		
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- a) EFB b) GEAC d) DBT CCMB c)
- Mendel's work was rediscovered in 37.
 - a) 1756 b) 1865 c) 1900 d) 1910
- 38. female?
 - a)
 - b) Mesoblastic c) Holoblastic and unequal
 - diploblastic d)
- 39.
 - Psycho biology
- 40.
 - The process of release of ova is called
 - b) ovulation a) menustration oogenesis
- d) gastrulation C) 41. A man of a blood group marries a women of "AB" blood group. Which type of progeny would indicate that man is heterozygous?
- 0 b) B А d) AB C)
- 42. In biotechnology, the process elution is connected with
 - visualisation of DNA b) movement of DNA a)
 - separation of DNA from gel c)
 - d) breaking of DNA into fragments
- Find the incorrect statement from the following 43. In a transverse section, a typical angiosperm a) microsporangium appears near circular in outline.
 - b) a microsporangium is generally surrounded by four wall layers - the epidermis, endothecium, middle layers and the tapetum.
 - The innermost wall layer of microsporangium is c) endothecium.
 - d) Cells of the tapetum possess dense cytoplasm and generally have more than one nucleus.
- 44. In Papaver plant, the gynoecium is
 - Multicarpellary and syncarpous a)
 - Multicarpellary and apocarpous b)
 - **Bicarpellary and syncarpous** c)
 - Tricarpellary and syncarpous d)
- Identify 'A' from the following diagram 45



d)

Erythrina

Maize

c)

- SECOND YEAR BIOLOGY(FULL) 51. Generally, the ploidy of testa in a dicot plant is
 - b) haploid
 - d) polyploidy
 - 52. Dicot embryo consists of

diploid

triploid

a)

d)

- radicle and plumule a)
- radicle, plumule and two cotyledons b)
- radicle, plumule, cotyledon and testa c)
- d) radicle, plumule, cotyledon and tegmen
- 53. The scientist who worked in Malay Archepelago supported
 - a) artificial selection b) natural selection
 - c) mutation breeding d) special creation
- 54. Different periods in the history of earth is divided into epochs, periods and eras a)
 - epochs, periods, millennium and eras b)
 - c) epochs, periods, light years and eras
 - d) none
- Heroin is obtained from plant of family 55.
 - b) Leguminosae a) Papaveraceae
 - d) Liliaceae c) Cruciferae
- Transcription is the transfer of genetic information 56. from
 - DNA to mRNA b) tRNA to mRNA a)
 - c) mRNA to rRNA d) Chromosome to cytoplasm
- Cervix occurs in 57. kidney b) fullopian tube a) c) between uterus and vagina
 - epididymis d)
- 58. Ability to produce maximum offspring is
 - a) biotic potential b) carrying capacity
 - c) environmental resistence
 - d) none of these
- Artificial immunity can be acquired from a 59.
 - a) vaccination b) serious illness
 - c) pencillin d) all of these
- 60. A genetic disease in many Africans which reduce the oxygen uptake by RBC is known as
 - a) anaemia b) haemophilia
- c) pernicious anaemia d) sickle cell anaemia
- Which of the following is an autoimmune disease? 61.
 - a) cholera b) rheumatic fever d) malaria
- c) typhoid fever 62. HIV is

c)

a)

c)

- a) Rhabdovirus
- b) Retrovirus c) Arbovirus
- d) Enterovirus
- 63. Which state of plasmodium is infective for mosquito?
 - a) trophozcite d) gametocyte
 - c) ookinete d) sporozoite
- 64. Unfertilized egg of human contains a) xx chromosomes

one y chromosome

- one x chromosome b)
 - d) x and y chromosomes
- Filarial worm remains in 65.
 - b) lymph channels

b)

b)

brain d)

glycine

phenyl alanine

Leishmania

- 66. The triplet UUU codes for
 - a) leucine

intestine

RBC

- c) methionine d)
- 67. Kala azar is caused by
 - a) Trypanasoma c)
 - Trichomonas d) Balantidium
- Gene responsible for the synthesis of a polypeptide chain is
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- 68.

- Which type of cleavage occurs in the zygote of human
 - Holoblastic and equal

 - Study of population trends is
 - Kalography a) b)
 - c) biography d) demography



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	a) structural gene b) operator gene		b) Saccharum officinarum – South Indian Sugar cane
	c) regulator gene d) hn mRNA		variety
69.	T cells are responsible for		c) Pusa gaurav – Brassica variety
	a) cellular immunity b) humoral immunity	01	d) Himgiri – wheat variety
	c) both of these d) none of these	81.	How can you tackle the problem of radio active
70.	Corpus luteum secretes		wastes?
	a) progesterone b) estrogen		a) storage of nuclear waste, after sufficient pre-
	c) lutenizing hormone d) FSH		treatment within suitably shielded containers buried within the rocks, about 500 m deep below
71.	Pteranodon come in the family history of		the earth's surface
	a) Bougainvillea and cucurbita		b) incinerators c) biological treatment
	b) Marsupials of Australia		d) all the above
	c) Darwin finches of Galapagos islands	82.	In split genes, the coding sequences are called
	d) Dinosaurs	02.	a) exons b) introns
72.	The given picture represents		c) cistrons d) operons
	0 0 6	83.	Geometric representation of age structure is a
		03.	characteristic of
	A MAR		
			a) population b) landscape
			c) ecosystem d) biotic community
		84.	The four nitrogen base sequence which form the code
	a) homologous organs		words for DNA language are
	a) homologous organsb) analogous organs		a) UTAC b) ACYU c) ATCG d) AGCU
	c) convergent evolution d) none	85.	DNA finger printing methods is very useful for
73.	Some bacteria able to grow in streptomycin containing	65.	a) DNA tests for identify and relationships
75.	medium is due to		b) forensic studies c) polymorphism
	a) Induced mutation b) Natural selection		d) all the above
	c) Artificial selection	86.	The relationship between two species in which one is
	d) Reproductive isolation		inhibited or harmed by the presence of other is
74. I	dentify the type of natural solution.		a) commensalism b) amensalism
			c) mutualism d) symbiosis
		87.	Who is responsible for male child birth?
			a) Mother b) Father
			c) Both d) None
		88.	Spermicides kill the sperms in the
			a) vagina b) cervix
		00	c) fallopian tube d) both (a) and (b)
	a) stabilizing selection	89.	Reserpine yielding plant is
	b) disruptive selectionc) directional selection		a) Ruelia b) Ixora c) Rauwolfia d) Datura
	d) artificial selection	90.	With respect to global biodiversity, major share of
75.	Tasmanian wolf is a marsupial while wolf is a placental.	70.	vertebrates are
70.	This show		a) fishes b) amphibians
	a) Convergent evolution		c) reptiles d) mammals
	b) Divergent evolution	91.	India's share in the global species diversity is
	c) Disruptive selection d) Atavism		a) 81% b) 33% c) 2.4% d) 8.1%
76.	If we accept special creation theory, the age of the	92.	For frugivorous birds and mammals in the tropical
	earth could be		forests of different continents, the slope of the line of
	a) 10000 years b) 20000 years		species area relationship (z, regression coefficient)
	c) 40000 years d) 4000 years		is found to be
77.	Marsupials of Australia exhibits		a) 0.6 to 1.2 b) 1.15
	a) Convergent evolution		c) 0.6 d) none
	b) Adaptive radiation	93.	Name the German naturalist and geographer, who did
70	c) Captive breeding d) Analogous		extensive explorations in the wilderness of South
78.	Meloidegyne incognitia attack a) leaves and shoot of tobacco plant		American jungles for species area relationships a) Alexander von Humboldt
	a) leaves and shoot of tobacco plantb) roots of tobacco plant		a) Alexander von Humboldt b) David Tilman c) Edward Wilson
	c) stem of tobacco plant		d) Paul Ehrlich
	d) xylem and phloem of tobacco plant	94.	Keolado National Park (Bhartpur) is at
79.	Howard Florey was connected with	74.	a) Meghalaya b) Rajasthan
	a) Genetic engineering b) Cloning		c) Tamil Nadu d) Maharashtra
	c) Microbiology d) Hybridization	95.	Under unfavourable conditions many zooplankton
80.	Find the mismatch		species in lakes and ponds are known to enter a stage
	a) IR 8 – Developed at Central Rice Research		of suspended development known as
	Institute, Orissa		a) diapause b) aestivation

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- SECOND YEAR BIOLOGY(FULL)
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 - scarification b) scalariforms a) C) stratification d) all the above
 - 100.The minimum number of components required for an ecosystem to survive are
 - Producers and Decomposers a)
 - b) Producers consumers and decomposers
 - Producers and consumers c)
 - d) Primary consumers and decomposers
 - 101.Sedementary cycle is
 - a) carbon cycle b) nitrogen cycle
 - sulphur cycle c) d) all the above
 - 102. Glomus is connected with
 - saprophyte b) parasite a)
 - mycorrhiza d) epiphyte
 - c) 103.In mycorhizal association, the fungal symbiont in these associations absorbs phosphorus from soil and passes it to the plant. This statement is a) true b) false c) never true d) none of the above
 - 104.Pheromones are useful in a) insect control b) weed control
 - c) fungal control d) none of these
 - 105. 'disarmed pathogen' vectors are useful in
 - a) gene transfer b) gene cloning
 - gene elution d) gene electrophoresis c) 106.Find the organism which is connected with illegal
 - aquaculture in India Clarias gariepinus b) Nile perch a)
 - c) Cichlid fish d) prawn
 - 107 Exploring molecular genetic and species level diversity for products of economic importance is a) biopharming b) bioprospecting biosynthesis d) biomagnifications c)
 - 108.Find the incorrect pair
 - a) Earth Summit (1992) Rio de Janeiro
 - Slash and burn agriculture Jhum cultivation b)
 - c) Ramesh Chanda Dagar – E waste
 - 'Service Before Self'
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- d) Environment Act 1986
- 109. Find the incorrect match
 - Catalytic converter carbon dioxide and nitrogen a) oxide
 - ESP particulate matter b)
 - Earmuffs noise pollution c)
 - d) Landfills solid wastes
- 110. Lysozymes can be used for the separation of genetic material from
 - Chlamydomonas a) b) Spirogyra
 - c) Bacteria d) Yeast
- 111. The genetically modified organism ------ can be used to test the polio vaccine. If it is successful and found to be reliable, they could replace the use of ------ to test the safety of batches of vaccine.
 - a) E. coli and CC cat b) CC cat and cow
 - CC cat and disarmed retro virus c)
 - d) mice and monkeys
- 112. Mutations in body can be detected by molecular diagnostic tool
 - autoradiography b) ELISA a)
 - c) PCR d) phase contrast microscope
- 113.To be successful in evolution, a mutation must occur in
 - a) plasma proteins b) somatoplasm DNA
 - c) germplasm DNA d) any DNA in the body
- 114.Initiating force of evolution is
 - a) selective breeding b) mutation
 - c) adaptation d) migration
- 115. Some of the land reptiles went back into water to evolve into fish like reptiles probably (e.g. Ichthyosaurs).
 - a) 300 mya b) 200 mya
 - 500 mya d) 600 mya c)
- 116.Triple fusion in angiosperm is the fusion of second sperm with
 - a) antipodal cell and one synergid cell
 - b) two antipodal cells
 - two synergid cells c)
 - d) two polar nuclei
- 117.In a pond ecosystem, the respiration cost of herbivores is about
 - b) 30% c) 60% 20% d) 50% a)
- 118. Realising the significance of participation by local communities, the Government of India has introduced the concept of Joint Forest Management (JFM) in the year
 - a) 1970 b) 1980 c) 2001 d) 2003
- 119.Biological agents which can act as particulate matter
 - a) conidiospores b) spores
 - d) all the above c) pollen
- 120.Extra chromosomal bodies in paramecium are
 - a) plasmids b) lambda particles
 - c) kappa particles d) episomes
- 121. The percentage ratio of natality over mortality is called a) vital index b) population density c) total count
 - d) none of these
- 122. Which mammal excrete solid urine to avoid water loss?
 - a) crow b) kangaroo rat c)
 - d) squirrel camel