

TELANGANA BOARD CLASS 6 GENERAL SCIENCE SYLLABUS

- Chapter 1 Our Food
- Chapter 2 Playing with magnets
- Chapter 3 Rain- where does it come from
- Chapter 4 What do animals eat
- Chapter 5 Materials and things
- Chapter 6 Habitat
- Chapter 7 Separation of substances
- Chapter 8 Fibre to fabric
- Chapter 9 Plants: parts and functions
- Chapter 10 Changes around us
- Chapter 11 Water in our life
- Chapter 12 Simple electric circuits
- Chapter 13 Learning how to measure
- Chapter 14 Movements in animals
- Chapter 15 Light, shadows and images
- Chapter 16 Living and nonliving



- The early embryo (upto 8 blastomeres) can be transferred into the fallopian tube is known as
 - (A) IUT
 - (B) ZIFT
 - (C) IUI
 - (D) ICSI

3) Lactational amenorrhea means :

(A) Begins of menstruation

 $\mathcal{L}(B)$ Absence of menstruation during intense Lactation

- (C) Corpus luteum degenerates
- (D) Absence of Lactation
- Diseases like chlamydiosis, trichomoniasis and syphilis are known as
 - (A) MTP
 - B) STI
 - (C) IUI
 - (D) Non infectous diseases

5) Expression of only one of the parental characters in the F_1 and expression of both in the F_2 , can be explained by

- (A) Punnett square
- (B) Law of segregation
- Law of Dominance
 - (D) Multiple alleles

6) _____ is mendelian disorder

- (B) Turner's syndrome
- (C) Klinefelter's syndrome
- (D) Down's syndrome

M - 306

Rough Work



7)	α Thalassemia and β Thalassemia linked genes are located	I
	on which chromosomes respectively	

- (A) on 11 and 16
- $\mathcal{A}(\mathbf{B})$ on 16 and 11
- (C) on 18 and 11
- (D) on 12 and 18
- 8) N Glycosidic linkage contains
 - (A) Dipeptide
 - (B) Disaccharide
 - (C) Triglyceride
 - ·D) Nucleoside
- 9) 5 Methyl uracil means
 - (A) Uracil
 - B) 'Thymine
 - (C) Guanine
 - (D) Cytosine
- 10) The Genome containing all the coding and non coding sequence with the function is termed as
 - (A) · Sequence Annotation
 - (B) Expressed sequence Tags
 - (C) Bacterial artificial chromosomes
 - (D) Yeast artificial chromosomes
- 11) The bones of forelimbs have similar anatomical structure is _____
 - (A) Divergent evolution
 - (B) Convergent evolution
 - (C) Peripheral evolution
 - (D) Radial evolution

SEK(14) (New)

M - 306

Rough Work







12) Diagrammatic representation of the operation of natural selection two peaks are formed. This condition shows ____ effect of (A) Directional (B) Stabilising ver Disruptive (D) Distructive 13) The brain capacities of homoerectus was _____ (A) 1400 CC (B) 900 CC (C) 650-800 CC (D) 1200 CC 14) During evolution ______ evolved into first amphibians. (A) Cartilagenous fish (B) Bony fish (C) Reptiles (D) Lobe fins 15) Montreal Protocol _____ is for. (A) Air pollution (B) Water pollution (C) Soil pollution (D) Ozone depletion 16) Interferons are considered as _____ type of barrier. (A) Physiological (B) Physical (C) Cellular (D) Cytokine K(14) (New)

Rough WOLK

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- 17) Colostrum has abundant antibodies _____
 - (A) Ig G
 - (B) Ig A
 - (C) Ig M
 - (D) Ig E

18) The cancer patients are given substances called biological response modifiers such as

- (A) β Interferon
- (\mathbf{B}) α Interferon
- (C) γ Interferon
- (D) Δ Interferon

19) Rice variety containing over five times iron made possible due to ______.

(A) Single cell protein

- (B) Biofortification
- (C) Tissue culture
- (D) Mutation

20) The capacity to generate a whole plant from any cell/explant is called

(A) Micropropagation

(B) Totipotency

- (C) Somaclones
- (D) Meristem
- 21) Superior males of one breed are mated with superior females of another breed is known as.
 - (A) Cross-breeding
 - (B) Out breeding
 - (C) Interspecific hybridization
 - (D) MOET

SEK(14) (New)

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Rough Work

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22) Toddy' a traditional drink is made by fermenting sap from.

- (A) Soyabean
 - (A) 00,200
- (B) Tomato
- (C) Palms
 - (D) Bamboo shoots
- 23) Bottled fruit juices brought from market are clearer as compared to those made at home because the bottled juices are clarified by the use of _____
 - (A) Proteases
 - (B) Pectinases
 - (C) Pectinases and Proteases
 - (D) Streptokinase

24) Many members of the genus ______ form mycorrhiza.

- (A) Saccharomyces
- (B) Trichoderma
- (C) Glomus
- (D) Monascus
- 25) Flocs means ____
 - (A) Anaerobic sludge
 - (B) Activated sludge
 - (C) Masses of bacteria associated with fungal filaments to form mesh like structure
 - (D) Primary sludge

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SEK(14) (New)







 26) The Lady bird and Dragonflics are useful to get rid of (A) Aphids and mosquitoes (B) Aphids and rotifers (C) Housefly and Mosquitoes (D) Cockroach and Locust 	M - 306 Rough Work
 27) Fragments of DNA can be separated by a technique known as (A) Microinjection (B) Selectable marker (C) Biolistics (D) Gel electrophoresis 	*
 28) have the ability to transform normal cells into cancerous cells. (A) Retrovirus (B) Rhinovirus (C) Bacteriophage (D) T.M.V. 	
 29) Which enzymes are responsible for breaking the wall of bacterial cell, plant cell and fungus cell respectively? (A) Cellulase, Chitinase, Lysozyme (B) Lysozyme, Cellulase, Chitinase (C) Chitinase, Cellulase, Lysozyme (D) Lysozyme, Chitinase, Cellulase 	
30) The formula of population density is (A) $N_{t+1} = N_t + [(B + I) - (D + E)]$ (B) $N_{t+1} = N_t + [(D + E) - (B + I)]$ (C) $N_{t+1} = N_t + [(B - I) - (D + E)]$ (D) $N_{t+1} = N_t + [(B + I) - (D - E)]$	
SEK(14) (New) 7	(P.T.C

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1)	Eury (A)	some organisms are restricted to a narrow range of	1
	(B)	salinities Some organisms are tolerant of a wide range of salinities	
)	(Q)	Some organisms can tolerate and thrive in a wide range of temperatures	
	(D)	Some organisms can tolerate and thrive in a narrow range of temperatures	
2)	Сгу	I Ac and Cry I Ab encoded proteins and and	••••
	(A)	Corn borer - Cotton boll worms	
١	B	Cotton boll worms - corn borer	
	(C)	Lepidoptera - Coleoptera	
	(D)	Coleoptera - Lepidoptera	t de la policie de la companya de la Companya de la companya de la company Companya de la companya de la company
3)	Insu	lin chain A and Chain B are linked together by	
	(A)	Disulfide bond	. V
	(B)	Peptide bond	
	(C)	Sulphur bond	
	(D)	Hydrogen bond	
I)	Rosi	e is the	
	(A)	Transgenic Vaccine	
	(B)	Transgenic Plant	\sim .
1	(er	Transgenic Cow	
	(D)	Transgenic disease controller	36 4 5

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- 35) Organisms breed only once in their lifetime.
 - (A) Desert lizard
 - (B) Oysters
 - VCY Bamboo
 - (D) Kangaroo rat
- 36) Select the statement which explains best parasitism.
 - (A) Both the organisms are benefited
 - (B) Both the organisms are affected
 - (C) One organism is benefited, other is not affected
 - (D) One organism is benefited, other is affected
- 37) The annual net primary productivity of the whole biosphere is approximately _____ (dry weight) of organic matter.
 - (A) 150 billion tons
 - (B) 170 billion tons
 - (C) 190 billion tons
 - (D) 210 billion tons
- 38) The pyramid of biomass in sea is generally.

(A) Inverted

- (B) Upright
- (C) Linear
- (D) Cyclic

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Rough Work



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	Rough Work
39) $\log S = \log C + Z \log A$ equation indicate	
$39) \log S = \log C + Z \log T + Z \log $	
(A) Biodiversity	÷.
(B) Species area relationships	90.
(C) Loss of biodiversity	
(D) Latitudinal gradient	
40) The most important cause driving animals and plants to extinction is.	
(A) Over - exploitation	
(B) Habitat loss and fragmentation	
(C) Alien species invasions	. : .2
(D) Co-extinctions	
	•
41) In India now National parks and wild life sanctuaries.	. *
(A) 90 - 448	
(B) 75 - 348	
(C) 110 - 548	•
(D) 90 - 248	
42) particulate size particles are responsible for causing the greatest harm to human health.	
(A) PM 5	
(B) PM 10	
(C) PM 2.5	
(D) PM7	1
K(14) (New) 10	

SEK(14) (New)

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43) A sexual reproductive structure like gemmules are observed M - 306 Rough Work (A) Hydra (B) Penicillium Sponges (D) Zoospora 们的 44) In Honeybees the female gamete undergoes development to form new organisms without fertilization is known as (A) Sexual reproduction (B) Parthenogenesis (C) Polyembryony (D) Parthenocarpy 45) In primate mammals cyclical changes occur during reproduction are called (A) Menstrual cycles (B) Menopause (C) Seasonal breeders (D) Continuous breeders 22 23 C 14 46) Pollen grains are well preserved as fossils because of the presence of _____ (A) Pectin (B) Cellulose (C) Lignin (D) Sporopollenin



47) A typical angiosperm embryo sac, at maturity, though _______ is ______

Rough Work

- (A) 7 nucleate 8 celled
- (B) 8 nucleate 7 celled
- (C) 6 nucleate 7 celled
- (D) 7 nucleate 6 celled

48) Some seeds such as black pepper and beet, remnants nucellus persist is known as :

- (A) Non albuminous
- (B) Perisperm
 - (C) Albuminous
 - (D) Pericarp

49) Testicular hormones like androgens are synthesized by

- (A) Leydig cells
 - (B) Sertoli cells
 - (C) Spermatogonia
 - (D) Spermatozoa

50) Which hormone is involved in induction of parturition?

- (A) Relaxin
- Dxytocin کھر
 - (C) Progesterone
 - (D) Estrogen
- SEK(14) (New)

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056(E)

(MARCH, 2020) SCIENCE STREAM (CLASS - XII) (New Course)

(Part - B)

Time : 2 Hours

[Maximum Marks : 50

Instructions :

- 1) Write in a clear legible handwriting.
- 2) There are three sections in Part B of the question paper and total 1 to 18 questions are there.
- 3) All the questions are compulsory. Internal options are given.
- 4) The numbers at right side represent the marks of the question.
- 5) Start new section on new page.
- 6) Maintain sequence.

SECTION - A

■ Answer question No. 1 to 8 as directed. Each question carry 2 marks. [16]

Explain cell division during gamete formation.

2) Explain the structure of pollen grain.

Explain the types of natural birth control method.

Explain vaccination and immunisation.

Explain co-dominance in human with example.

- 5) Write the Biochemical characterisation of Transforming principle in human.
- 6) Explain population growth.

Write Carbon Cycle.

SEK(14) (New)

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Explain the three important levels of biodiversity. 8)

Noise pollution and it's control.

SECTION - B

Answer question No. 9 to 14 as directed. Each question carry 3 marks.

Give the important features of genetic code.

10) Explain Hardy-weinberg principle.

Explain innate immunity. OR Explain Plant breeding for improved food quality.

Explain Antibiotics.

13) Write the uses of G.M.O.

OR

Describe productivity as a unit of Ecosystem.

Describe any three causes of Biodiversity losses.

<u>SECTION - C</u>

Answer question No. 15 to 18 in detail. Each question carry 4 marks.

[16

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[18]

Describe pregnancy and embryonic development. **X**S)

16) What is point mutation? Describe it with example.

OR

Explain packaging of DNA Helix.

Describe Tissue culture.

Explain Restriction enzymes in detail. (Fig. is not necessary)



