

CATEGORY-III PART - 3

Natural Science

加	Question Num Which one of the following is an example of mutualism?			ts.	A mit	a mineral element which is a component of nitrogenase is :	
					(A)	Molybdenum	
	(A)	Barnacle and	i whale		(B)	Chlorine	
	(B)	Sea anemone	e and hermit crab		(C)	Cobalt	
	(C)	Sucker fish a	and shark		(D)	Nitrogen	
	(D)	Vanda and t	tree				
		Sales Company of the Company			Scutellum is a :		
72.	Turner's syndrome is caused due to the:			740-	(A)	Proteinaceous layer	
	(A) Presence of an additional copy of X-chromosome				(B) Sheath that encloses radicle		
	(B)	Presence of	an additional copy of		(C) (D)	Sheath that encloses plumule A shield shaped cotyledon	
	(C)		an additional copy of				
	(D) Absence of one of the X-chromosomes			77.	T.O. Diener discovered : (A) Prions		
					(B)	Virus	
73.	73. Choose the correctly matched pair :				(C)		
(A) Yellow spot - Aperture of the iris (B) Pupil - Point of maximum visual clarity				(D)	Viroids		
			78.	Columns of Bertini is associated with:			
(C) Blind spot - Part of the choroid seen behind the					Liver		
			cornea		(B)	Pituitary gland	
(D) Cornea - Anterior part of the				(C)	Kidney		
(1)	,		sclera		(D)	Ear	
74.	bones		h skeletal muscles to	79.		e gaps between two adjacent myelin	
(A) Cartilage					(A)	Schwann cells	
	(B)	Ligaments			(B)		
-	(C)	Tendons			(C		
		Joints			(D		

80				Choose the statement which is not true about gel electrophoresis:		
	(A) (B) (C)	Capsule Siliqua Follicle		(A)	DNA fragments are forced to move towards the anode under an electric	
	(D)			(B)	field Exposure to UV radiation is required	
81	. The (A)	golden age of reptiles is : Mesozoic		(C)	DNA fragments can be visualized by adding agarose	
	(B) (C) (D)	Cenozoic Paleozoic Proterozoic		(D)	DNA fragments separate according to their size	
	(-)		87.	A m	ucleoside includes :	
82.					Nitrogen bases only	
	point called :			(A) (B)	Nitrogen bases and sugar	
	(A) (B)	Centrosome Chromocentre		(C)	Nitrogen bases and phosphate	
	(C)	Chromomere		(D)	Phosphate and sugar	
	(D)	Kinetochore			and and	
83.	Identify the organelle which is not involved in photorespiration:			Which one of the following is not a four carbon compound formed during krebs' cycle?		
	(A)	Chloroplast		(A)	Succinic acid	
	(B)	Peroxisome		(B)	Malic acid	
	(0)	Mesosome		(C)	Fumaric acid	
	(D)	Mitochondria		(D)	Citric acid	
84.	Which one of the following is a bacterial disease?			The fruiting body of Agaricus is:		
	(A)	Brown rust of wheat		(A)	Ascocarp	
	(B)	Black rot of crucifers		(B)	Pseudocarp	
	(C) Late blight of potato (D) Red rot of sugarcane			(C)	Cremocarp	
				(D)	Basidiocarp	
85.	Choose the option that does not come under "The Evil Quartet":			Whi for t	Which one of the following is not used for the industrial production of acids?	
		Alien species invasion		(A)	Acetobacter aceti	
		Co-extinction		(B)	Lactobacillus	

(B)

(C)

(D)

Co-extinction

Latitudinal gradients

Over exploitation

(B)

(C)

(D)

Clostridium butylicum

Streptococcus

- 91. The dental formula in human to (A) 2132/2132
 - (B) 1223/1223

 - 1232/1232
 - 2123/2123
- Blood group with no antibodies in plasma 92.
 - (A) B group
 - A group (B)
 - AB group (C)
 - (D) O group
- Most primitive member of the human race 93.
 - Homo habilis (A)
 - Australopithecus afarensis (B)
 - Homo neanderthalensis
 - Ardipithecus ramidus (D)
- 94. Choose the correct statement regarding halophiles:
 - (A) They live in salty areas
 - They are eubacteria (B)
 - They live in marshy areas (C)
 - They produce biogas
- Synapsis occurs during: 95.
 - Diplotene
 - Leptotene (B)
 - Zygotene (C)
 - Diakinesis (D)
- Which one of the following represents wrinkled seed shape and green seed colour ?
 - (A) RRYY
 - (B) TYTY
 - (0) RyRy
 - (D) rryy

- Which one of the following is not true about bulliform cells?
 - Helps to minimize water loss (A)
 - They are colourless cells (B)
 - Present in abaxial epidermis
 - They make the leaves curl inwards
- Grasslands in South America are known 98. as :
 - Steppes (A)
 - Tussocks (B)
 - Velds (C)
 - Pampas (D)
- Which one of the following represents the gametophytic stage of pteridophytes?
 - Strobilus (A)
 - Prothallus (B)
 - Protonema (C)
 - Spores (D)
- 100. Restriction enzymes are isolated from:
 - (A) Bacteriophage
 - (B) Bacteria
 - Fungus (C)
 - (D) Virus
- 101. Choose the group which includes haploid parts only:
 - Embryo sac, microspore (A)
 - (B) Egg. ovule
 - Pollen grain, ovule (C)
 - (D) Embryo sac, tapetum

		cottowing is not a	107.	Ident	ify the correct statement regarding	
102	2. Which one of the following is not a modification of stem?			(A)	d gland :	
				(4)	(A) Located on either side of the	
	(A)	Thorn			Machea	
		Pneumatophores		(0)	It is a composite gland	
		Runner		121	Secretes melatonin	
	113010	Bulbil survivor is not true		(0)	Helps in the development of immune system	
103	Which one of the following is not true about active transport ?		108.	Formation of seeds without fertilization is called:		
	(A)	(A) Requires energy				
	(B)	Requires membrane proteins			Parthenogenesis	
	(C)			(B)	Pseudocarpy	
	(D)	Highly selective		(0)	Parthenocarpy	
					Apomixis	
104.	A plant growth regulator which helps to				Apomixis	
	achieve respiratory chimacta.		109	A -1	A chemical which does not cause seed dormancy is:	
	ripening of fruit is:					
	700	Cytokinin			Abscissic acid	
	(B)	Ethylene		(B)	Gibberellic acid	
	(C)	Auxin				
	(D)	Gibberellins		(C)	Phenolic acid	
		A sa Caran to the		(D)	Para-ascorbic acid	
105.	-	provides nutrition to the germ cells.				
	(A) Interstitial cells		110		Which one of the following is a single cell protein?	
		Leydig cells			Lactobacillus	
	(C)	Sertoli cells				
	(D)	Goblet cells			Nostoc	
				(C)	Spirulina	
106	Whi	ch one of the following guards the		(D)	Anabaena	
106.	opening between the left atrium and the					
	left ventricle?			. Ag	regarious pest is :	
	(A)	Mitral valve		(A)	Caterpiller	
	(B)	Inter atrial septum		(B)	Locust	
	(C)	Tricuspid valve		(C)	Sand fly	
	(D)	Inter ventricular septum		100	. 111.	
				(D)		

- 112. Which one of the following is not a vector
 - (A) Swine Flu
 - (B) Malaria
 - Chikungunya (C)
 - (D) Leptospirosis
- 113. Which one of the following is not a
 - (A) Hemp
 - Cotton (B)
 - Flax
 - (D) Jute
- 114. The number of polypeptide chains in human haemoglobin is:
 - One alpha chain and one beta chain
 - Two alpha chains (B)
 - Two alpha chains and two beta (C)
 - (D) One alpha chain and two beta chains
- 115. Eutrophication is :
 - Natural aging of a lake by nutrient (A) enrichment
 - Excessive growth of planktonic forms
 - (C) Increase in concentration of the toxicant at successive trophic levels
 - Increased demand for oxygen by (D) microorganisms
- 116. Choose an example for syncytum from the following:
 - (A) Liquid endosperm in coconut
 - (B) Coleoptile in grasses
 - (C) Aleurone layer in monocots
 - (D) Coleorhiza in grasses

- 117. Choose the statement which is not true about Bt cotton :
 - (A) Insect resistant plant
 - Produces cry protein (B)
 - Contains genes from Bacillus (C) amyloliquefaciens
 - Toxic protein produced in the plant is insect specific
- 118. Agar is obtained from :
 - Gracilaria (A)
 - (B) Chara
 - Oscillatoria (C)
 - Chlorella (D)
- 119. Choose the correct statement about cerebrospinal fluid:
 - (A) Provides nutrients and oxygen to the tissues of the brain
 - It is filled within the ventricles of the brain only
 - Formed from blood (C)
 - Protect the brain from injuries (D)
- 120. Choose the option which includes bisexual organisms only:
 - (A) Nereis, Leech
 - Asorris, Earthworm (B)
 - (C) Ascaris, Nereis
 - Earthworm, Leech (D)
- 121. Which of the following is an example of a kinesthetic approach to reading?
 - (A) Listening to a lecture class on vocabulary
 - Reciting a poem (B)
 - (C) Using models of letters to form words
 - Visually identifying syllables on (D) alphabet cards

- 122. Test which measures pupil's attainments and progression in a specific subject or topic over a set period of time.
 - (A) Achievement tests
 - Diagnostic test (B)
 - Formative tests
 - (D) Prognostic test
- 123. "A whole hearted purposeful activity proceeding in a social environment":
 - (A) Dalton plan
 - Experiment (B)
 - Lecture (C)
 - (D) Project
- 124. Which is the advisory body for the Central and State Governments on all matters pertaining to teacher education?
 - (A) NCTE
 - (B) NCERT
 - (C) SCERT
 - (D) UGC
- 125. Which domain involves visualizing and formulating experiments, designing instruments and machines, relating objects and concepts in new ways?
 - (A) Application Domain
 - (B) Attitudinal Domain
 - (C) Creativity Domain
 - (D) Process Domain
- 126. Which among the following is one of the five basic principles of NCF 2005?
 - (A) Connecting knowledge to life outside the school
 - Developing school infrastructure (B)
 - Providing teacher training and (C) incentives
 - (D) Promoting integrated curriculum

- 127. The main function of NCERT is an extensi extension work with State Education Departments centering around the improvement of:
 - (A) Higher Education
 - (B) School Education
 - (C) Vocational Education
 - (D) Technical Education
- 128. A teaching outline of the important points of a lesson arranged in the order in which they are to be presented?
 - (A) Action plan
 - (B) Lesson plan
 - (C) Unit plan
 - (D) Year plan
- 129. Among the following statements which one comes under Four Pillars of education?
 - (A) Learning to act
 - Learning to earn
 - (C) Learning to think
 - (D) Learning to be
- 130. Who developed Taxonomy of Science Education ?
 - (A) Anderson and Krathwohl
 - (B) Biggs and Collis
 - (C) B.S. Bloom
 - (D) McCormack and Yager
- 131. Who is the founder of Dalton Method?
 - (A) Armstrong
 - (B) D.W. Allen
 - (C) Helen Parkhurst
 - (D) John Dewey

- 132. Which among the following will come Which among under the Principles of Curriculum
 - Principle of Utility (A)
 - Principle of Discipline (B)
 - Principle of Planning (C)
 - Principle of co-operation (D)
- 133. Which is NOT a part of Pedagogical
 - (A) Content analysis
 - Curriculum designing (B)
 - Diagnostic testing
 - Learning Experiences (D)
- 134. IT@school was formed in :
 - (A) 2003
 - (B) 2005
 - 2004 (C)
 - (D) 2001
- 135. One among the following is NOT in the six different validities of a good science curriculum as envisaged by NCF 2005
 - Cognitive validity (A)
 - (B) Content validity
 - (C) Construct validity
 - (D) Process validity
- 136. Versatile ICT enabled resource for students is:
 - Entertainment channel only (A)
 - (B) Edutainment channel
 - Game channel only (C)
 - Science channel only (D)

- 137. Which is NOT a part of the Curriculum?
 - (A) Evaluation
 - Learning experiences (B)
 - Professional ethics (C)
 - Syllabus (D)
- 138. Which situation is suitable for using lecture method ?
 - For formulating a tentative solution (A)
 - For giving individual attention to (B) students
 - For giving hands own experiences (C) to students
 - For introducing and summarising lessons
- 139. An approach of curriculum organisation where a continuous and unbroken learning of the subject matter through various levels of education is ensured:
 - Concentric approach
 - Interdisciplinary approach
 - (C) Spiral approach
 - Topical approach
- 140. An integrated process skill in science :
 - Classifying (A)
 - Experimenting (B)
 - Measuring (C)
 - Observing (D)
- 141. Skills essential to learn and understand scientific information:
 - (A) Computer skills
 - Process skills (B)
 - Lifeskills (C)
 - Social skills (D)

142.	What helps a teacher to adopt effective						
	instructional aids and strategies in						
	teaching learning process?						

- (A) Competitive Analysis
- (B) Content Analysis
- (C) Pedagogic Analysis
- (D) Swot Analysis

143. Who is considered as the father of Cognitive Constructivism?

- (A) Bruner
- (B) Gagne
- (C) Piaget
- (D) Vygotsky

144. Which agency published NCF 2005?

- (A) CBSC
- (B) NCTE
- (C) SCERT
- (D) NCERT

145. Inquiry based learning approach begins with:

- (A) A question to answer
- (B) Exploration
- (C) Laboratory tests
- (D) Observation

146. Year in which NCERT was established?

- (A) 1963
- (B) 1961
- (C) 1964
- (D) 1962

- 147. Science-A process approach or SAPA is an outcome of :
 - (A) AAAS
 - (B) ESS
 - (C) NCF
 - (D) SCIS
- 148. Mode of grading where grades are given based on predetermined cut off levels is:
 - (A) Absolute grading
 - (B) Mastery grading
 - (C) Norm reference grading
 - (D) Relative grading
- 149. What gives us a detailed account of the subject content to be transacted and the skills, knowledge and attitudes which are to be deliberately fostered together with subject specific objectives?
 - (A) Curriculum
 - (B) Objectives
 - (C) Principles
 - (D) Syllabus
- 150. According to McCormack and Yager's taxonomy, collection and compilation of data comes under:
 - (A) Knowledge domain
 - (B) Process domain
 - (C) Creativity domain
 - (D) Application domain

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