## BVM matriculation school Half Yearly Exam 2018

	11th Standard		Date : 14-Jan-19
	Biology	Reg.No.:	
Time: 02:30:00 Hrs			Total Marks: 70
Section - I			16 x 1 = 16
Note: i) All Questions are compulsor	у		
ii) Choose the most suitable ar	nswer from the given four alte	rnatives and	
write the option code and the corres	ponding answer		
4)			

1)	The integrated phage DNA is called	
	(a) prophage (b) bacteriophage (c) cyanophage (d) mycophage	
2)	Water is essential for fertilization	
	(a) Angiosperm (b) Bryophytes (c) Gymnosperms (d) Fungi	
3)	Buds arising at any part other than stem as known as	
	(a) Apical bud (b) Axillary bud (c) Adventitious bud (d) Accessory bud	
4)	Flowers are zygomorphic in	
(	(a) Lilium (b) Solanum (c) Datura (d) Hibiscus	
5)	Ribosomes were first observed by	
	(a) Christian de Duve (b) George Palade (c) A.Kolliker (d) A.F.U.Schimper	
6)	The function of sieve tubes are believed to be controlled by	
	(a) Phloem parenchyma (b) sieve cells (c) Companion cells (d) Albuminous cells	
7)	Pulsation Theory was proposed by	
	(a) J.B.Bose (b) Goldewski (c) Strasbuger (d) Stephen Hales	
8)	Exanthema in citrus caused by the deficiency of	
	(a) Boran (b) Manganese (c) Iron (d) Copper	
9)	The beneficial bacterias are known as	
	(a) pathogens (b) probiotic (c) cyanobacteria (d) plasmid	
10)	Find out the mismatched pair	
	(a) Adhering junction - Keep neighbouring cells together (b) Tight junction - Leakage of cellular components	
	(c) Synaptic junction - Junction between neurons (d) Gap junction - Connect cytoplasm	
11) Match the following		
	A B	
	1 Jaundice i Cholesterol	
	2 Liver cirrhoes ii Asprin	
	3 Gall stone iii Alcoholism	
	4 Peptic ulcer  iv Viruses	
	(a) 1(iii) 2(iv) 3(i) 4(ii) (b) 1(iv) 2(ii) 3(iii) 4(i) (c) 1(iv) 2(iii) 3(i) 4(ii) (d) 1(i) 2(iii) 3(ii) 4(iv)	
12)	Find out the wrong statement:	
	(a) Prothrombin is an inactive protein (b) Plasma with fibrinogen is called serum (c) Heparin is an anticoagulant	
	(d) Thrombin convert fibrinogen into fibrin	
13)	Write the correct answer	
	Assertion: Thalamus is a white matter which act as relay centre	
	Reason: It coordinates sensory and motor signelling	
	(a) Both Assertion and Reason is correct (b) Both Assertion and Reason is wrong (c) Assertion is correct but Reason is wrong	
	(a) Dominion and reason is contest (b) Doministration and reason is wrong (c) rescribed is contest but needs in 13 wrong	

(d) Assertion is wrong but Reason is correct

- 14) 1. The plasmamebrane of muscle cell is known as sarcolemma 2. Hydrostatic skeleton is stiff bony structure present in fishes 3. The Vertebral ribs are not connected to sternum (a) 1 is correct, 2 and 3 are wrong (b) 1 and 2 are correct, 3 is wrong (c) 3 is correct, 1 and 2 are wrong (d) 1 and 3 are correct, 2 is wrong 15) Choose the correct statement If the vasopressin receptor of a man is defective. Then (a) He suffer from low blood pressure and dehydration (b) Shows hyperglycemic condition (c) Excessive thirst does not occurs (d) the urea level in the urine is higher than the normal 16) Which of the following harmone is not secreted under the influence of pituitary gland (a) Thyroxin (b) Insulin (c) Oestrogen (d) Glucocorticoids Section - II  $12 \times 2 = 24$ II. Answer any eight questions 17) Differentiate Homoiomerous and Heteromerous lichens 18) What is epipetalous stamens? 19) Write the properties of water. 20) Draw and label bicollateral vascular bundle. 21) Define ascent of Sap 22) What is Chlorosis? 23) What are methanogens? 24) What are adipocytes? 25) What is vermicompost? 26) Why more oxygen is transported by haemoglobin than in dissolved form 27) Draw and label reflex arc 28) Write down any two functions of melatonin Section - III  $10 \times 3 = 30$ III. Answer any six questions 29) What is Velamen root? Give example 30) Draw and label the structure of chromosome. 31) What is Synapsis? 32) What is trichoplast? 33) Define respiratory quotient 34) The first child of Rh+ive father and Rh-ive mother is homozygous recessive condition. Is the next child affected by Erythroblastocis foetails? Give reason
- 35) Name the composition of "Sebum"
- 36) How is mean arterial pressure increases?
- 37) Write any three function of C.S.F
- 38) How is pelvic girdle is adapted for conception?

**Section - IV** 8 x 5 = 40

## IV. Answer All Questiuons:

- 39) Write the characteristic features of stem.
- 40) Describe special inflorescence with example
- 41) Draw and label the parts of T.S of Dicot leaf
- 42) Write the flow chart of Glycolysis
- 43) Explain the fundamental distinct features of chordates
- 44) Explain the digestion and absorption of proteins in human intestine.
- 45) What are the functions of skeletal system?
- 46) Explain the disorders due to hyper and hyposecretion of glucocorticoids

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