Q.P. Code: [JSRT ! 103 VCD 25/11/19 Total Marks: 75 2 1/2 Hours science I Basic Life 1. Attempt all questions. 2. All questions carry equal marks. 3. Draw neat labelled diagrams wherever necessary. 4. Use of log tables and non-programmable calculatoris allowed. 5. For Q 2, Q 3 and Q 4 attempt A and B OR C and D. Do as directed (Any fifteen) 01 Liverfluke belongs to the phylum 1. Give one example of fungi. 2. Give one significance of biodiversity. 3. 4. Define: Organ grade of organisation. 5. Any one character of Gymnosperms Define Biogenesis. 6. 7. Name any one Algae. Who proposed the Fluid Mosaic Model for structure of plasma 8. membrane? What is the thickness of peptidoglycan layer in Gram positive and Gram 9.

State True or False. "Bukaryotic cells lack well defined nuclear

protein.

negative bacterial cell wall?

Bacterial flagella is made up of

membrane bound nucleus in cytoplasm".

Give any two examples of bacterial inclusion bodies.

State True or False. "Nucleus is powerhouse of a cell."

Give one example of a virus with icosahederal symmetry.

coined the term bacteriophage.

State the role of carborundum for the cultivation of plant viruses.

Explain chemotropic mode of nutrition with respect to bacteria.

shaped bacteria.

Sedimentation rate of eukaryotic ribosomes is

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Bacilli are

Name any one Eumycota.

Q. 2 A	Explain general characters of Invertebrates.	08
	Write economic importance of fungi.	07
Q. 2 B	OR	
0.00	Explain genetic diversity and give its significance.	08
Q. 2 C	General characteristic of Eubacteria.	07
Q. 2 D	General characteristic of Educational	
Q. 3 A	Compare and contrast prokaryotic and eukaryotic cell	08
Q. 3 B	Give an account of structure and function of flagella.	07
V. 0 13	OR	
Q. 3 C	Discuss briefly the phagocytosis process with a neat and labelled diagram.	08
Q. 3 D	Describe in detail structure and function of chloroplast.	07
Q. 4 A	Give an account of classification and types based on morphology of	08
	bacteria.	
Q. 4 B	Elaborate on classification of animal viruses on the basis of their	07
	transcription process.	
Q. 4 C	Describe in detail any two methods for cultivation of animal viruses.	08
	Diagrammatically explain viral multiplication cycle.	07
Q. 5	Write Short notes on any three of the following	15
a.	Ecological diversity.	
b.	General characters of phylum Platyhelminthes.	
c.	Structure of plasma membrane.	
d.	Bacterial endospore.	
	Posterial nutritional requirements	