

Dr Kaluk

JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT
TEST -3 EXAMINATION- May-2018

B.Tech VI Semester

COURSE CODE: 10B11BT615

MAX. MARKS: 35

COURSE NAME: DIAGNOSTICS & VACCINE MANUFACTURE TECHNOLOGIES

COURSE CREDITS: 04

MAX. TIME: 2 HRS

Note: All questions are compulsory. Carrying of mobile phone during examinations will be treated as case of unfair means. Answer ALL subparts of a question at one place. Marks would be deducted for improper numbering of questions.

Q1. Write Short Notes on the following related to Vaccines (Max 250 words): [2 X 7 =14]

- a. Types of vaccines for cervical cancer
- b. Types of Snake Anti-venom
- c. Inactivated Polio Vaccine
- d. Advantages of Edible Vaccine
- e. Vaccines for AIDS
- f. Embryo culture and its application
- g. Mechanism of tetanus toxin inside human host

Q2. Write Short Notes on the following related to diagnostic techniques: [2.5 X 4 =10]

- i. Diagnosis of Chromosomal Aberrations by Karyotyping
- ii. Applications of RFLP as diagnostic tool.
- iii. Limitations of Amplified fragment length polymorphism (AFLP)
- iv. Diagnosis of Urinary Tract Infections by multiplex PCR

Q3. Explain the following statements with reason: [3 X 2 =6]

- a. Why are children given two doses of MMR vaccine? How does MMR vaccine work?
- b. Are people living in cold climatic conditions more prone to pneumonia? How often do elderly people above 65 years need to take pneumonia vaccines?

Q4. Answer the following with appropriate justification(s): [2.5 X 2 =5]

- a. Some children suffer from polio even after getting vaccinated. What is the use of getting child vaccinated if the disease can occur even in vaccinated children?
- b. Why pregnant and breastfeeding mothers shouldn't be given chickenpox vaccine?