

Unit 14 - Week 12

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Assignment 12

The due date for submitting this assignment has passed.
As per our records you have not submitted this assignment.

Due on 2020-12-09, 23:59 IST.

- 1) The vaccine used for prevention of tuberculosis is 1 point
- BCG
 - HCG
 - MMR
 - DPT
- a.
 b.
 c.
 d.
- No, the answer is incorrect.
Score: 0
Accepted Answers:
a.
- 2) A patient suffering from tetanus is given antiserum for therapy. This process of immunization is called 1 point
- Natural active immunization
 - Booster immunization
 - Passive immunization
 - Artificial active immunization
 - Prophylaxis
- a.
 b.
 c.
 d.
 e.
- No, the answer is incorrect.
Score: 0
Accepted Answers:
c.
- 3) Measles, Mumps and Rubella (MMR) vaccine is an example of 1 point
- Inactivated vaccine
 - Live attenuated vaccine
 - DNA vaccine
 - Toxoid vaccine
 - Polysaccharide vaccine
- a.
 b.
 c.
 d.
 e.
- No, the answer is incorrect.
Score: 0
Accepted Answers:
b.
- 4) The first recombinant antigen vaccine approved for human use is 1 point
- BCG vaccine
 - Hib vaccine
 - Hepatitis B vaccine
 - DPT vaccine
 - Polio vaccine
- a.
 b.
 c.
 d.
 e.
- No, the answer is incorrect.
Score: 0
Accepted Answers:
c.
- 5) Disease caused by which one of the following bacteria can be prevented by a toxoid vaccine? 1 point
- Corynebacterium diphtheria
 - Salmonella typhi
 - Streptococcus pneumonia
 - Neisseria meningitides
- a.
 b.
 c.
 d.
- No, the answer is incorrect.
Score: 0
Accepted Answers:
a.
- 6) The peptidoglycan muramyl dipeptide and the glycolipid trehalose dimycolate (TDM) found in mycobacterial cell walls contain much of the adjuvant activity of the whole killed organism. It is present in 1 point
- Freund's incomplete adjuvant
 - Freund's complete adjuvant
 - Alum
 - All of the above
 - None of the above
- a.
 b.
 c.
 d.
 e.
- No, the answer is incorrect.
Score: 0
Accepted Answers:
b.
- 7) All are important characteristics of effective vaccines except 1 point
- It must be available at low cost
 - It must provide long lasting immunity
 - It must be safe and easy to use with low side effects to human
 - It should induce neutralizing antibody
 - It must provide immunity to atleast 20% of the population.
- a.
 b.
 c.
 d.
 e.
- No, the answer is incorrect.
Score: 0
Accepted Answers:
e.
- 8) The hybrid cell lines called the hybridomas are selected by using a selective medium called HAT medium. Which one/(s) of the following is incorrect about HAT medium? 1 point
- Aminopterin in growth medium inhibits the *de novo* synthesis pathway.
 - Aminopterin in growth medium inhibits the salvage pathway.
 - Hypoxanthine and thymidine are utilized in the salvage pathway.
 - Aminopterin and thymidine are utilized in the salvage pathway.
 - Hypoxanthin is converted to guanine by HGPRT enzyme in myeloma cells
 - Hypoxanthin is converted to guanine by HGPRT enzyme in fused cells.
- I, III and VI only
 - II, IV and V only
 - I, III and V only
 - II, IV and VI only
 - II, IV, V and VI only
- a.
 b.
 c.
 d.
 e.
- No, the answer is incorrect.
Score: 0
Accepted Answers:
b.
- 9) After mixing of antibody producing B cells with myeloma cells three types of cells are present in the suspension. These cells are transferred to a HAT medium in which only hybridoma cells can grow. Which one of the following is false about HAT selection? 1 point
- B cells are HGPRT+ and can grow in HAT medium but undergoes normal cell death.
 - Myeloma cells cannot grow in HAT medium as these cells lack HGPRT
 - Hybrid cells survive in HAT medium as it inherits HGPRT from B cells.
 - Aminopterin in HAT medium blocks *de novo* pathway of nucleotide synthesis only in myeloma cells.
- a.
 b.
 c.
 d.
- No, the answer is incorrect.
Score: 0
Accepted Answers:
d.
- 10) What is ScFV? 1 point
- Fused chain of V_H and V_L of immunoglobulin.
 - Fused chain of V_H and V_L of immunoglobulin connected by 10-25 amino acid linker peptide.
 - Fused chain of C_H and C_L of immunoglobulin connected by 10-25 amino acid linker peptide.
 - Fused chain of C_H and C_L of immunoglobulin.
- a.
 b.
 c.
 d.
- No, the answer is incorrect.
Score: 0
Accepted Answers:
b.