

(4)

efecveeKele cellmes ekavneR oes hej meh#hle eShheeCeUeB efueKes:

- (i) mkefelle Fuekseve mehceolMe
- (ii) mhekessešcesj
- (iii) Fueksešcesj emene

Unit-I V/Fkaef-I V

8. The weight in Kg of ten girl students of B.Sc.-III of 20-25 years old were recorded which are as follows: 11

50, 45, 48, 52, 47, 45, 51, 55, 53 and 49

Calculate mean weight and their standard deviation.

ome Jeer Sme-meer. IeteeJe Je-e& keâr 20-25 Je-e& keâr DeUeg keâ UeSeDeUkâ Jepeve dkaueeSece cellop& dkaulee ieLee pes efecvele n

50, 45, 48, 52, 47, 45, 51, 55, 53, SJb 49 GheUea Deekâ[ellkeâe Deemele Jepeve IeLee Fvekâ ceevekâ effeueve keâr ieCevee keâkepeS~

9. Write short notes on the following:

$$5\frac{1}{2} \times 2 = 11$$

- (i) Science citation index
- (ii) Correlation coefficient

efecveeKele hej meh#hle eShheeCeUeB efueKes:

- (i) effeueve mebY& mefukeâkâ
- (ii) menmecyevOe iefceâkâ

A

(Printed Pages 4)

S-662

B.Sc. (Part-III) Examination, 2015

ZOOLOGY

Second Paper

(For regular students Only)

(Biotechnology, Immunology, Biological tools etc)

Time Allowed : Three Hours] [Maximum Marks : 75

Note : Answer five questions in all. Question No.1 is compulsory. Attempt one question from each Unit.

keque heeble fMveelkeâ Goej oepeS~ fMve meb1 DeveleUe&nW
fUekâ Fkaef-&mes Skeâ fMve keapeS~

1. Describe briefly the following: $3 \times 10 = 30$

efecveeKele keâ meh#hle effeijCe oepeS:

- (a) Standard deviation
cevekâ effeueve
- (b) Humulin
nuteeueve
- (c) Transgenic animal
ŠAvmepesfekâ pevle
- (d) Electrophoresis
Fueksešcesj smeme

(2)

- (e) Fermentation
fermentasi
- (f) Cell mediated immunity
celularni imunitas
- (g) Transmission electron microscope
mikroskop elektronik transmisi
- (h) Dendogram
dendrogram
- (i) Variance
varian
- (j) ELISA
tes ELISA

Unit-I / Fkaf-1

- 2. What is recombinant DNA technology? Describe its process and application. 11

recombinan DNA teknologi [er. Sve. S. Desain teknik kele nipi. Fmekar desain Desain
Desain teknik kele teknik kele p-

- 3. Write short notes on the following: 11
 - (a) Plasmids and episome
 - (b) Transformation
- 4. Write short notes on the following:
 - (a) hancifne[SJeb Sheemeese
 - (b) hef jecave (Smettej cMeve)

(3)

Unit-II / Fkaf-11

- 4. Give an account of the structure of immunoglobulin and discuss various types of immunoglobulins. 11
struktur imunglobulin dan diskusi tentang tipe imunglobulin
- 5. Write short notes on the following: 11
 - (a) Active immunity
 - (b) Vaccine
- 6. Write short notes on any two of the following: 12
 - (a) mesial lej #ee
 - (b) Šekere

Unit-III / Fkaf-111

- 6. Describe the principle and working of pH meter. State its uses in biological science. 12
prinsip dan cara kerja pH meter. State penggunaannya dalam sains biologi
- 7. Write short notes on any two of the following: 6×2=12
 - (i) Scanning electron microscope
 - (ii) Spectrophotometer
 - (iii) Electrophoresis