Printed Pages: 02 **Sub Code: EAG602**

Paper Id: | 1 | 8 | 0 | 6 | 0 | 2 | **Roll No.** | | | | | | | | | | |

B TECH
(SEM VI) THEORY EXAMINATION 2017-18
EPBM & FOOD QUALITY (SET A)

Time: 3 Hours ***Total Marks: 100***

Note: Attempt all Sections. If require any missing data; then choose suitably.

SECTION A

1. Attempt *all* questions in brief. 2 x10 = 20

a) Define Specific heat.
b) What is strain time effect?
c) Define viscosity of agriculture products.
d) What is compressor?
e) What is E.M.C.?
f) Define drying.
g) Define PFA act.
h) Define AGMARK.
i) Define BIS.
j) Define FPA.

SECTION B

2. Attempt any *three* of the following: 10 x 3 = 30

a) At 60^0C, Henderson constant C and n are 7.4×10^{-4} K^{-1} and 0.56 respectively. The equilibrium moister content corresponding to 40% calculate relative humidity?
b) What is screening. Explain the type of screening?
c) Define the quality control. Explain the concept, objectives and need of quality control.
d) Explain the Food Laws and Regulations used now days in India.
e) What is the angle of repose and its type? What are the methods of measurement of angle of repose?

SECTION C

3. Attempt any *one* part of the following: 10 x 1 = 10

a) Write short note on following.
i. Drag coefficient.
ii. Rolling resistance.
iii. Terminal velocity.
iv. St. Venant body.
v. Angle of internal friction.
b) What do you mean by BIS and AGMARK?

4. Attempt any *one* part of the following: 10 x 1 = 10

a) What do you mean by physical properties of biological material?
b) Describe the HACCP (Hazard Analysis and Critical Control Point) and ISO-9000 series?

5. Attempt any *one* part of the following: 10 x 1= 10

a) What is the requirement and sampling procedure for granular and powdered materials?
b) What are the thermal properties of biological material?

6. Attempt any *one* part of the following: 10 x 1= 10

a) What do you understand by aerodynamic characteristics?

b) Discuss different Internal and External damage occurring in food product during transportation?

7. Attempt any *one* part of the following: 10 x 1= 10

a) What do you understand by Aerodynamic characteristics? Discuss relation between drag coefficients and terminal velocity.

b) Explain the drying and its type. Write the types of dryer.