

set I

August/ September 2018 / BACKLOG
F. Y. B.TECH. (COMMON) (SEMESTER - I)
Engineering Mathematics I (ES11171)
(2017 PATTERN)

Max.Marks:50

Scheme of Marking

- Q.1) a) Correct Answer-----02 Marks
b) Correct Answer-----02 Marks
c) Correct Answer-----02 Marks
d) Correct Answer-----02 Marks
e) Correct Answer-----02 Marks
f) Correct Answer-----02 Marks
g) Correct Answer-----02 Marks
h) Correct Answer-----02 Marks
i) Correct Answer-----02 Marks
j) Correct Answer-----02 Marks

- Q 2) a) LHS-----03 Marks
RHS-----03 Marks
b) Upto type and degree of function-----03 Marks.
Euler's Theorem and Correct answer-----03 Marks
c) $\frac{\partial z}{\partial x}$ -----01 Mark
 $\frac{\partial z}{\partial y}$ -----01 Mark
 $\frac{\partial^2 z}{\partial x \partial y}$ -----02 Marks

OR

- Q3) a) $\frac{\partial v}{\partial t}$ -----01 Mark
 $\frac{\partial^2 v}{\partial x^2}$ -----03 Marks
Further Calculation & Correct answer-----02 Marks
b) Upto type and degree of function-----03 Marks.
Euler's Theorem and Correct answer-----03 Marks
c) $\left(\frac{\partial r}{\partial x}\right)_y$ -----02 Marks
 $\left(\frac{\partial x}{\partial r}\right)_\theta$ -----02 Marks

- Q4) a) $\frac{\partial(x,y)}{\partial(r,\theta)}$ -----03 Marks
 $\frac{\partial(r,\theta)}{\partial(x,y)}$ -----03 Marks
- b) Correct approach-----02Marks
Correct answer-----02 Marks
- c) Correct approach-----02Marks
Correct answer-----02 Marks

OR

- Q5) a) Stationary Points-----03 Marks
Correct Conclusions-----03 Marks
- b) Numerator-----02 Marks
Denominator-----02 Marks
- c) Correct approach-----02Marks
Correct answer-----02 Marks