

IQRA NATIONAL UNIVERSITY, PESHAWAR

Department Of AHS

Summer-2020

Subject: Applied Mathematics-I Duration: Minutes

Instructor: Anwar Shamim Total Marks: 30

Semester: Summer Semester

Note: Attempt all questions. Manage your time properly.

Q.No. (01)

Find the Integration of the following.

a.
$$\int (x^2 e^x) dx$$

b.
$$\int (5x^2 + x^{-2} + 15) dx$$

C.
$$\int (x^3 + x^{-2} + 5) dx$$

Q.No. (02)

Find the solution of the following.

- a) If 56% of the homes in a colony have a car. What %age of homes does not have a car?
- b) There are 1029 students in a school.504 of them are girls. Find the ratio of boys to the girls.
- c) Amna scored 46 out of 50 in a math test,64 out of 75 in a chemistry test and 72 out of 80 in a physics test.In which subject did she perform best?

Q.No. (03)

Find the derivatives of the following.

a)
$$S = -4t^{-5} + 4/t + 5t + 1/4$$

b)
$$Y=x^5+3x^3-x^2+4$$

c)
$$T=6x^{-3}+x^3+5x-2$$