



K18U 1734

Reg. No. :

Name :

V Semester B.A./B.Sc./B.Com./B.B.A./B.B.A.T.T.M./B.B.A.R.T.M./
B.B.M./B.T.T.M./B.C.A./B.S.W./B.A. Afsal UI Ulama Degree (CCSS –
Supplementary) Examination, November 2018
(2013 & Earlier Admissions)
Open Course
5 D01 CHE : CHEMISTRY IN SERVICE TO MAN

Time : 2 Hours

Max. Weightage : 20

SECTION – A

Answer all questions. Each bunch of four questions carries a weightage of 1.

Choose the correct answer.

- I. 1) i) PMMA is a polymer of
a) Vinyl chloride
b) Methyl methacrylate
c) Isoprene
d) None of these
- 2) ii) Buna S is a
a) Natural rubber
b) Fertilizer
c) Synthetic rubber
d) None of these
- 3) iii) In NPK fertilizers the alphabets N, P and K stands for
a) Nitrogen, Phosphorous and Potassium
b) Nitrogen, Potassium and Keratin
c) Nitrogen, Plutonium and Potassium
d) None of these
- 4) iv) The main raw material used in glass manufacture is
a) Sand
b) Carbon
c) Gypsum
d) None of these
- II. 5) i) Talc is actually
a) Magnesium silicate
b) Calcium silicate
c) Potassium silicate
d) None of these

P.T.O.



- 6) ii) Natural gas is mainly
- | | |
|------------|------------------|
| a) Methane | b) Ethane |
| c) Butane | d) None of these |
- 7) iii) Chemicals used to relieve high body temperature during fever are called
- | | |
|--------------------|-------------------|
| a) Antidepressants | b) Antipsychotics |
| c) Antipyretics | d) None of these |
- 8) iv) Zeolites are used
- | | |
|--------------------------|-----------------------|
| a) As rocket propellents | b) In water softening |
| c) For colouring glass | d) None of these |
- (Wt.: 2×1=2)**

SECTION – B

Answer **any 6** questions in **one** or **two** sentences. **Each** question carries a weightage of **1**.

- 9) What is Bakelite ?
- 10) Give two examples of natural fibres.
- 11) How is artificial silk prepared ?
- 12) Differentiate between pesticides and insecticides.
- 13) What are pheromones ?
- 14) What is meant by calorific value of a fuel ?
- 15) What are the raw materials of Portland cement ?
- 16) Write two harmful chemicals in cosmetics.
- 17) What are anaesthetics ?
- 18) What is hard water ? **(Wt.: 6×1=6)**



SECTION – C

Answer **any 4** questions. Answer **not** to exceed **one** page. **Each** question carries a weightage of **2**.

- 19) Differentiate between thermoplastics and thermosetting plastics with examples.
- 20) What are biodegradable polymers ? What are their benefits ?
- 21) Write about the 4 main classes of insecticides.
- 22) What are the characteristics of a good fuel ?
- 23) What is LPG ? What are the constituents of LPG ? What are its advantages ?
- 24) Differentiate between disinfectants and germicides with examples.
- 25) What are the disadvantages of using hard water ?
- 26) Differentiate between BOD and COD. **(Wt.: 4×2=8)**

SECTION – D

Answer **any 1** question. **Each** question carries a weightage of **4**.

- 27) Write short notes on :
- | |
|-------------------|
| a) Origin of coal |
| b) Fuel cells |
- 28) Write short notes on :
- | |
|----------------------------------|
| a) Manufacture of ordinary glass |
| b) Manufacture of cement. |
- 29) Write short notes on any two water softening methods. **(Wt.: 1×4=4)**