

B.Ed. Programme - PART-B: PHYSICAL SCIENCE
Model Question Paper

Questions: 100
Marks: 100

TIME: 100 Mins

SAMPLE QUESTIONS

1. If a body is taken from the earth to the moon
 - A) its mass will be different but weight will remain the same
 - B) both mass and weight will be different
 - C) its mass will remain the same but weight will be different
 - D) its mass and weight will be unchanged

2. The correct definition of an oxidizing agent is
 - A) an electron donor
 - B) an electron acceptor
 - C) a proton donor
 - D) a proton acceptor

3. The active ingredient in bleaching powder is
 - A) calcium carbonate
 - B) calcium hypochlorite
 - C) calcium hydroxide
 - D) calcium chloride

4. Geometrical isomerism is possible in the case of
 - A) Pentane
 - B) Propane
 - C) Butane
 - D) Ethane

5. Fish can survive inside a frozen lake because
 - A) it is good conductor of heat
 - B) fish is warm blooded animal
 - B) fish hibernate in ice
 - D) water near bottom does not freeze

6. Television signals cannot be received ordinarily beyond a particular distance due to
 - A) weakness of the signal
 - B) weak antenna
 - C) curvature of the earth
 - D) absorption of signal in the air.

7. A regular hexagonal crystalline lattice of ice is formed by
 - A) ionic bond
 - B) hydrogen bond
 - C) covalent bond
 - D) metallic bond

8. The mole fraction of O₂ in a mixture of CH₄ and O₂ containing equal masses is
 - A) 1/2
 - B) 1/4
 - C) 1/3
 - D) 2/3

9. The hydrolysis of ethylacetate is a reaction of
 - A) first order
 - B) second order
 - C) third order
 - D) zero order

10. An astronaut cannot hear his companion at the surface of the moon because
 - A) produced frequencies are above the audio frequencies
 - B) there is no medium for sound propagation
 - C) temperature is too low during night and too high during day
 - D) there are too many craters on the surface of the moon

11. An air bore attached to a musical instrument increases the
- A) pitch of the sound
B) intensity of the sound
C) quality of the sound
D) shrillness of the sound
12. The pair of compounds which cannot exist together in solution is
- A) NaHCO_3 and NaOH
B) Na_2CO_3 and NaHCO_3
C) Na_3CO_3 and NaOH
D) NaHCO_3 and NaCl
13. Isocyanide test is used to detect
- A) primary alcohols
B) primary amines
C) secondary amines
D) secondary alcohols
14. The earth's magnetic field always has a horizontal component except at
- A) equator
B) magnetic pole
C) a latitude of 60 deg,
D) a latitude of 45 deg.
15. The medicinal substance given against the intake of poisons or to prevent a disease from having an effect is known as
- A) antibody
B) antigen
C) antidote
D) antibiotic

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