

**NEET BIOLOGY**

*Topic: Sexual reproduction in flowering plants*

- Q.1** How many meiosis are required for formation of 32 zygotes in angiosperms?  
(a) 40 (b) 32  
(c) 48 (d) 64
- Q.2** Formation of embryo from unfertilized egg is known as  
(a) self incompatibility (b) parthenocarpy  
(c) diploid parthenogenesis (d) haploid parthenogenesis
- Q.3** In dicots pollen tetrad is usually  
(a) linear (b) isobilateral  
(c) tetrahedral (d) t-shaped
- Q.4** Which of the following is not a part of vegetative reproduction in flowering plants?  
(a) pollination (b) tissue culture  
(c) stem cutting (d) layering
- Q.5** In angiosperms pollen are released from the mature anther usually at  
(a) 5 celled stage (b) 3 celled stage  
(c) 2 celled stage (d) 1 celled stage
- Q.6** Nutritive layer for developing pollens in an anther is  
(a) endothecium (b) tapetum  
(c) epidermis (d) cortex
- Q.7** Chemically intine is  
(a) sporopollenin (b) cellulose + pectins  
(c) lignins (d) cutins

- Q.8** In angiosperms megaspore tetrad is
- (a) Decussate (b) Tetrahedral  
(c) Linear (d) Isobilateral
- Q.9** Embryo sac is
- (a) 8 nucleated, 7 celled (b) 7 nucleated, 8 celled  
(c) mainly 16 nucleated, 16 celled (d) 4 nucleated, 4 celled
- Q.10** Among angiosperms common type of pollination is
- (a) Entomophily (b) Hydrophily  
(c) Anaemophily (d) Myrmecophily
- Q.11** Triple fusion includes
- (a) Two polar gametes and one male gamete  
(b) two male gametes and one polar nuclei  
(c) two polar and two female gametes  
(d) two polar nuclei and one male gamete
- Q.12** Diploid male plant is crossed with tetraploid female plant. Find the ploidy level of endosperm.
- (a) Triploid (b) Pentaploid  
(c) Tetraploid (d) Hexaploid
- Q.13** Single, thin cotyledon in monocot is known as a
- (a) Aleurone layer (b) Epiblema  
(c) Epicotyl (d) Scutellum
- Q.14** A Pistillate Plant is Autotetraploid (AAAA) is crossed with a diploid staminate plant (aa). Find genetic make up of the endosperm.
- (a) aaaaA (b) AAAAa  
(c) AAAAA (d) Aaa
- Q.15** In majority of flowering plants embryo sac is
- (a) Trisporic (b) Bisporic  
(c) Tetrasporic (d) Monosporic

- Q.16** Cleistogamous condition favour
- (a) self fertilization (b) self incompatibility  
(c) self pollination (d) self sterility
- Q.17** Integumented megasporangium is known as
- (a) Ovary (b) Ovule  
(c) Anther (d) Carpel
- Q.18** In *Cocos nucifera* Coconut milk is
- (a) Liquid perisperm (b) Larval endosperm  
(c) Liquid endosperm (d) Liquid seed
- Q.19** Coleorhiza and coleoptiles are present in
- (a) Dicot seed (b) Monocot seed  
(c) both (d) Root and shoot
- Q.20** In about 80% of angiospermic families ovule is
- (a) Campylotropous (b) Circinitropous  
(c) Orthotropous (d) Anatropous
- Q.21** Amici discovered
- (a) Embryo sac (b) Endosperm  
(c) Ovule (d) Pollen tube
- Q.22** Which of the following is common in angiosperms?
- (a) Porogamy, amaemophily, double fertilization and orthotropous ovule  
(b) Chalazogamy and single fertilization  
(c) Double fertilization, anatropous ovule, monosporic embryo sac and nuclear endosperm  
(d) Haploid endosperm, hydrophily and monothealous anthers
- Q.23** Filiform apparatus is associated with
- (a) Synergids / help cells (b) Polar nuclei  
(c) Antipodal cells (d) Micropyle

- Q.24** Double fertilization occur in
- (a) seeded plants (b) phanerogames  
(c) cryptogams (d) plants with ovary
- Q.25** How many nuclei are required for syngamy in angiosperms?
- (a) 2 (b) 3  
(c) 48 (d) 64
- Q.26** Formation of embryo from fertilized egg is known as
- (a) self incompatibility (b) parthenocarp  
(c) embryogeny (d) parthenogenesis
- Q.27** In dicots each pollen posses ----- germ pores.
- (a) 2 (b) 2 – 3  
(c) 1 (d) 0
- Q.28** How many haploid nuclei are present in an embryo sac in angiosperms?
- (a) 1 (b) 2  
(c) 8 (d) 32 or 48
- Q.29** Chemically exine is
- (a) sporopollenin (b) cellulose + pectins  
(c) Lignins (d) cutins
- Q.30** Bird pollinated plant is
- (a) Salvia (b) Ficus  
(c) Adansonia (d) Erythrina

## ANSWER KEY

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<b>Que.</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>	<b>9</b>	<b>10</b>
<b>Ans.</b>	a	d	c	a	c	b	b	c	a	a
<b>Que.</b>	<b>11</b>	<b>12</b>	<b>13</b>	<b>14</b>	<b>15</b>	<b>16</b>	<b>17</b>	<b>18</b>	<b>19</b>	<b>20</b>
<b>Ans.</b>	d	b	d	b	d	c	b	c	d	d
<b>Que.</b>	<b>21</b>	<b>22</b>	<b>23</b>	<b>24</b>	<b>25</b>	<b>26</b>	<b>27</b>	<b>28</b>	<b>29</b>	<b>30</b>
<b>Ans.</b>	d	c	a	d	a	c	b	c	a	c