

**SCIENCE** 

FORM 3

MODULE 4

### REPRODUCTION



# **SCIENCE FORM 3**

#### **MODULE 4: REPRODUCTION**

#### Arahan:

- 1. Modul ini mengandungi **empat puluh tiga** soalan. Semua soalan adalah dalam bahasa Inggeris.
- 2. Modul merangkumi enam konstruk yang diuji

K1-Memahami soalan dalam Bahasa Inggeris

K3-Memahami istilah sains dalam Bahasa Inggeris

K5-Menguasai konstruk pengetahuan

K6-Menguasai konstruk kefahaman

K7-Menguasai konstruk kemahiran

K10-Memahami pengajaran dan pembelajaran dalam Bahasa Inggeris

- Murid hendaklah menulis maklumat diri dalam kertas jawapan objektif disediakan. Murid juga perlu memastikan maklumat konstruk, nombor soalan dan jumlah soalan seperti yang dibaca oleh guru di dalam ruangan disediakan dalam kertas jawapan objektif sebelum ujian.
- 4. Bagi **soalan objektif**, anda perlu menandakan jawapan dengan **menghitamkan pilihan jawapan** pada pilihan jawapan **A** , **B** , **C** atau **D** pada kertas jawapan objektif.

Contoh:

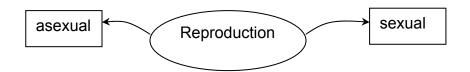
Antara berikut, yang manakah haiwan?

A. Pokok B. Kambing C. Kereta D. Pen

- 5. Bagi **soalan 36 hingga 43,** soalan dikemukakan secara lisan oleh guru manakala jawapan diberi secara bertulis oleh pelajar.
- Jawab semua soalan.

Modul ini mengandungi 22 halaman bercetak

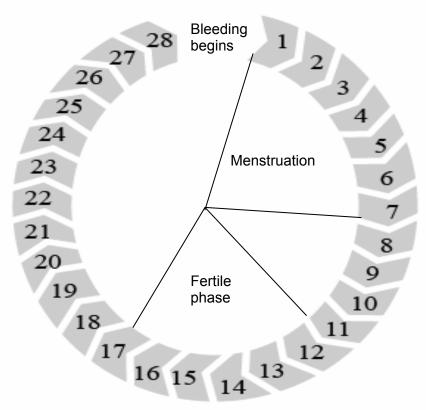
1. The figure shows the types of reproduction in living organism



How many ways can a living organism reproduce?

- A 1
- B 2
- C 3

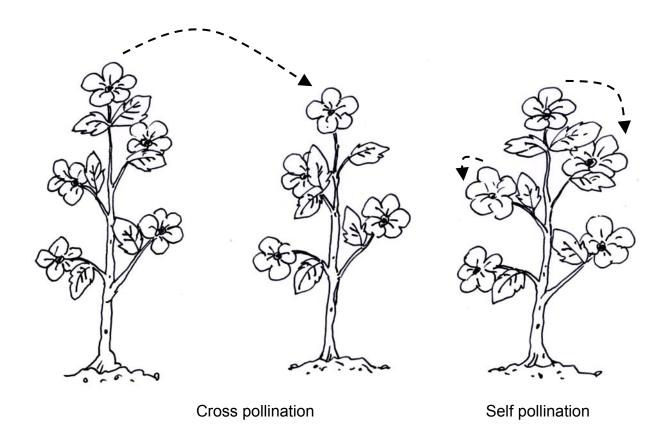
2. The figure shows a regular menstrual cycle



How long is the menstrual cycle?

- A 7 days
- B 11 days
- C 17 days
- D 28 days

3. The figure shows types of pollinations in flowering plants



How many type(s) of pollinations are there in the figure?

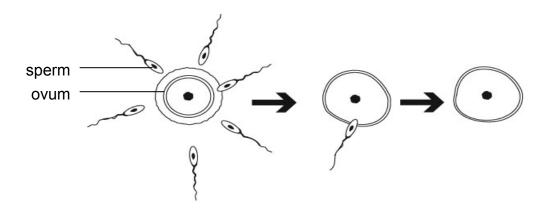
- A 1
- B 2
- C 3
- D 4
- 4. The suitable temperature for a seed to germinate is around 28°C. What is the range of temperature ( °C ) for a seed to germinate?
  - A 0-5
  - B 20 35
  - C 60 70

A flowering plant can reproduce vegetatively using its various parts such as runners, rhizomes, tuber, sucker, bulb and leaf. Which of the following is <b>not</b> a vegetative part of flowering plant?												
Α	Leaf											
В	Sucker											
С	Runner											
D	Flower											
The process in which unicellular organism divides and separates into two equal sizes is known as												
Α	budding											
В	binary fission											
С	spore formatio	า										
D	regeneration											
The 1	figure shows a m	enstrual cycle.										
ay 1	23456789	0 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28										
Mei	nstruation	Fertile phase										
		ovary produces an ovum during the fertile phase is knowr 										
Α	ovulation											
В	fertilisation											
	runner Which A B C D The sizes A B C D The fay 1 The fay A A A	runners, rhizomes, tube Which of the following A Leaf B Sucker C Runner D Flower  The process in which sizes is known as A budding B binary fission C spore formation D regeneration  The figure shows a meas  Menstruation phase  The process when an as A ovulation										

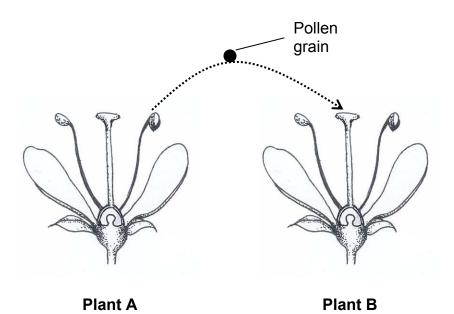
С

pollination

8. The figure shows the process of \_

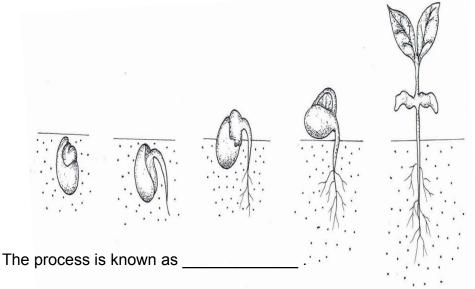


- ovulation Α
- В fertilisation
- С menstruation
- D germination
- 9. The figure shows the process of \_\_\_\_\_\_.



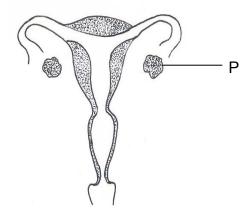
- Plant A
- self-pollination Α
- В cross-pollination
- С germination

10. The figure shows stages where a seed develops into a seedling.



- A pollination
- B fertilization
- C germination
- 11. Reproduction of a new plant from a certain part of the plant is known as \_\_\_\_\_.
  - A binary fission
  - B spores formation
  - C vegetative reproduction
- 12. Which of these reproductive processes are asexual reproductions?
  - I Budding
  - II Regeneration
  - III Rhizome
  - A I and II
  - B I and III
  - C II and III
  - D I, II and III

13. The figure shows a female reproductive system.



What is the function of P?

- A The place where fertilization occurs
- B To control the sex hormones
- C To produce the female sex gametes
- D To remove excess sperms that enter the body
- 14. Which part of the female reproductive system is involved during the delivery of a baby?
  - A cervix
  - B ovary
  - C fallopian tube
- 15. The female and male gametes of flowering plants are located at the \_\_\_\_\_.
  - A sepal and stamen
  - B pistil and ovary
  - C ovule and pollen grain
  - D filament and anther

	Α	Spore								
	В	Seed								
	С	Fruit								
	D	Gamete								
17.	Which	Which parts of the seed will grow during germination?								
	I	Testa								
	II	Plumule								
	Ш	Cotyledon								
	IV	Radicle								
	Α	I and II								
	В	I and III								
	С	II and III								
	D	II and IV								
18.	Female infertility is caused by									
	Α	impotence								
	В	low sperm count								
	С	blocked fallopian tube								
	D	penis unable to ejaculate sperms								
19.	Which	of the following birth control is <b>not</b> a mechanical method?								
	Α	Ligation								
	В	Condom								
	С	IUD								
	D	Diaphragm								

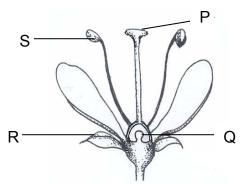
Which of the following develops from an ovary after fertilisation?

16.

20. Which of the following birth control methods is used by males?

- A IUD
- B Vasectomy
- C Spermicides
- D Contraceptive pills

21. The figure shows the process of pollination



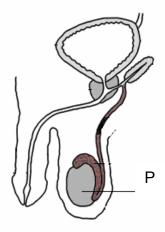
Where does the transfer of pollen grain take place?

- A  $P \rightarrow R$
- B  $P \rightarrow Q$
- C S→P
- D S→Q

22. Cross-pollination is better than self pollination because the offspring \_\_\_\_\_\_ .

- I produces more fruits
- II survives better under bad weather
- III is less resistant to diseases
- A I and II
- B I and III
- C II and III
- D I, II and III

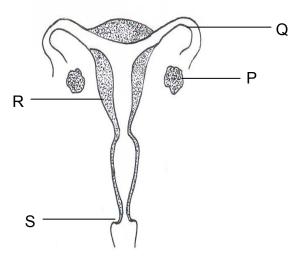
#### 23. The figure shows the male reproductive organ.

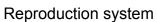


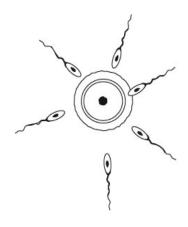
What happen it the structure  $\vdash$  does not function? The man is unable to \_\_\_\_\_

- A regulate his body temperature
- B produce seminal fluid
- C delivers sperms into the vagina
- D produce sperms and the male sex hormones

## 24. The figure shows a process which occurs in the female reproduction system during fertilisation.







Fertilisation process

In which part does this process take place?

- A P
- B Q
- C R
- D S

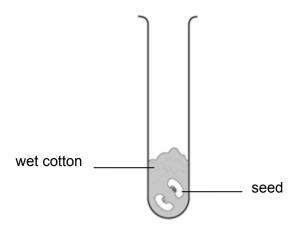
25. The figure shows a flowering plant.



Which of the following is the pollinating agent for this plant?

- A Insect
- B Bird
- C Wind
- D Water

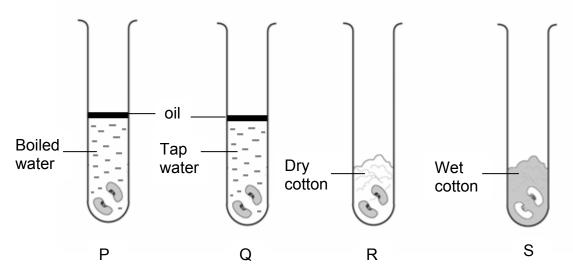
26. The figure shows a test tube containing seed kept in a refrigerator.



The seed did not germinate after four days because there is an absence of

- A A sunlight
- B B air
- C C water
- D D warmth

27. The figure shows an experiment to study the conditions needed for germination of seeds.



Which of the rollowing show the germination of seeds after five days?

- A P and Q
- B Q and S
- C S and R
- D R and S
- 28. The figure shows characteristics of plants
  - Plant P
  - Big and colourful flower
  - Produces nectar

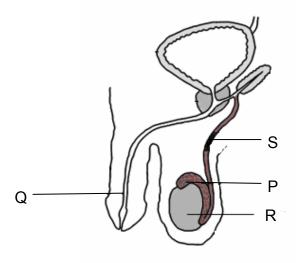
- Plant Q
- Produces large quantity of pollen grains
- Does not produces nectar

- Plant R
- Produces small quantity of pollen grains
- Short filament and small anther

Which plant is pollinated by animals?

- A Plant P and plant Q
- B Plant P and plant R
- C Plant Q and plant R

29. The figure shows a male reproductive system.



Choose the correct pathway to release the sperm.

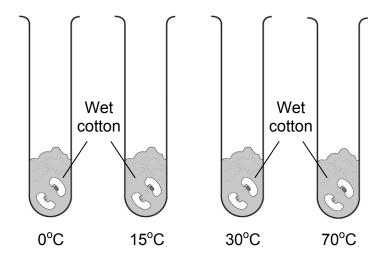
- A  $P \rightarrow Q \rightarrow R$
- B  $Q \rightarrow P \rightarrow S$
- $C R \rightarrow S \rightarrow Q$
- D  $S \rightarrow R \rightarrow P$
- 30. The figure shows the calendar for March 2008

MARCH 2008												
S	М	Т	W	Т	F	S						
		$\overline{}$		1	2	3						
4	5	(6)	7	8	9	10						
11	12	13	14	15	16	17						
18	19	20	21	22	23	24						
25	26	27	28	29	30	31						

Aminah has her first day of menstruation on the 6<sup>th</sup> of March. When is her next menstruation?

- A 1 April 2008
- B 2 April 2008
- C 3 April 2008
- D 4 April 2008

31. The figure shows an experiment to study the conditions for seeds to germinate.



What is the manipulated variable for this experiment?

- A Temperature
- B Oxygen
- **C** Water
- 32. The table shows the different conditions in the test tube P, Q, R and S that are used to study the factors that affect the seeds germination.

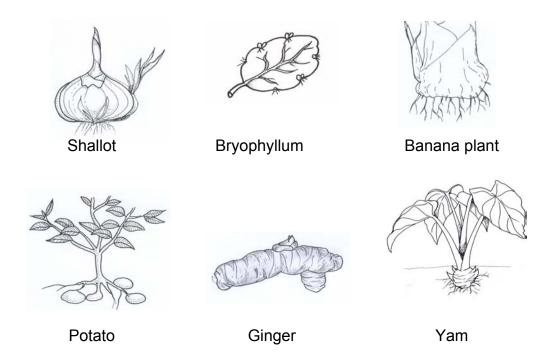
  After 5 days, in which of the test tubes will the seed germinate?

A B C

D

Test tube	Temperature	Oxygen	Water
Р	27°C	present	absent
Q	27°C	present	present
R	5°C	present	absent
S	5°C	present	present

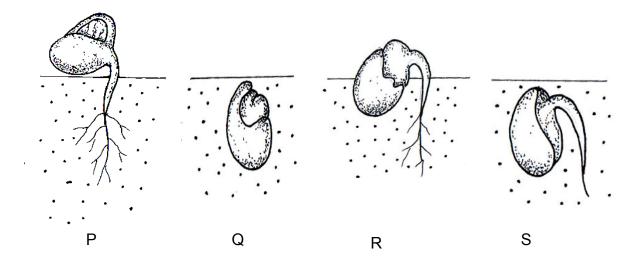
#### The figure shows the parts of plant that can reproduce vegetatively.



#### Which of the following is **correct**?

	Root	Stem						
Α	Potato	Banana plant						
В	Bryophyllum	Yam						
С	Banana plant	Ginger						
D	Shallot	Yam						

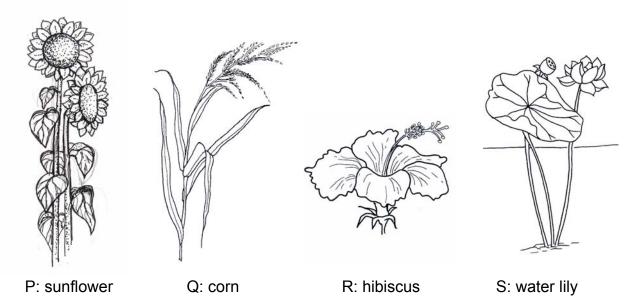
#### 34. The figure shows the germination of a seed



Choose the **correct** stages in the germination of seed.

- A  $P \rightarrow Q \rightarrow R \rightarrow S$
- B  $P \rightarrow R \rightarrow Q \rightarrow S$
- C Q $\rightarrow$ R $\rightarrow$ S $\rightarrow$ P
- D Q $\rightarrow$ S $\rightarrow$ R $\rightarrow$ P

#### 35. The figure shows the flowers of flowering plants



Which flowers are pollinated by insects?

- A P and Q
- B Q and R
- C R and S
- D P and R
- 36. Drugs, alcohol and tobacco smoke are known as
  - A miscarriage
  - B birth defects
  - C mental retardation
  - D harmful substances
- 37. Give one way to overcome sterility
  - A Natural family planning
  - B Birth control pills
  - C Barrier method such as condom
  - D Hormone treatments

38.	Name two types of reproduction.								
	Α	Budding and asexual							
	В	Spore formation and binary fission							
	С	Regeneration and asexual							
	D	Asexual and sexual							
39.	A flowering plant can reproduce vegetatively by using its _ I root								
	II	stem							
	Ш	fruit							
	IV	leaf							
	Α	I and II							
	В	I and III							
	С	I, II and III							
	D	I, II and IV							
40.	How n	nany time(s) does ovulation occur in a month?							
	Α	1							
	В	2							
	С	3							
	D	4							

41.	Name	the human sexual organs.									
	1	Penis									
	II	Sperm									
	Ш	Ovary									
	IV	Ovum									
	Α	I and II									
	В	I and III									
	С	II and III									
	D	II and IV									
42.	A mal	e reproductive organ of flower consists of									
	A filament, anther and ovary										
	В	stigma, style and ovary									
	С	filament and anther									
	D stigma, style and anther										
43.	The e	nvironmental factors needed by the seeds to germinate are									
	I	water									
	II	light									
	Ш	oxygen									
	IV	temperature									
	٨	Lond II									
	A	I and II									
	В	I and III									
	С	I, II and III									
	D	I, III and IV									



#### KEMENTERIAN PELAJARAN MALAYSIA KERTAS JAWAPAN OBJEKTIF Ujian Diagnostik



	Nama	Pelaja	ar:																	
Tahun/ Tingkatan : 3								Mata Pelajaran: SAINS												
Nama Sekolah:																				
	GUNA	KAN	DENS	II 2R	ΔΤΔΙΙ	BB SAH	ΔΙΔ													
								DAN N	/ЕМЕ	NUHI	KESE	LUR	UHAN RU	ANG.						
S						ANDA YANG . I <b>BAWAH</b>			T HUI	RUF J	AWA	PAN '	YANG ANI	DA PILIH						
1	$\bigcirc$	$^{\oplus}$	0	0	⊕		31	$\bigcirc$	$^{\odot}$	0	0	⊕		46	$\bigcirc$	$^{\oplus}$	0	0	⊕	
2	$\bigcirc$	$^{\oplus}$	0	0	◐		32	$\bigcirc$	$^{\oplus}$	0	0	$\bigcirc$		47	$\bigcirc$	$^{\oplus}$	0	0	Œ	
3	$\bigcirc$	$^{\odot}$	0	0	(E)		33	$\bigcirc$	$^{\odot}$	0	0	Ð		48	$\bigcirc$	$^{\oplus}$	0	0	Œ	
4	$\triangle$	$^{\odot}$	0	0	Ð		34	lack	$^{\oplus}$	0	0	Ð		49	<b>(A)</b>	$^{\oplus}$	0	0	Ð	
5	<b>(A)</b>	B	0	0	Ð		35	$\triangle$	B	0	0	(E)		50	<b>(A)</b>	B	0	0	Ð	
6	<b>(A)</b>	B	0	0	Ð		36	<b>(A)</b>	B	0	0	Œ		51	<b>(A)</b>	$^{\oplus}$	0	0	(E)	
7	$\bigcirc$	$^{\odot}$	0	0	Ð		37	$\bigcirc$	$^{\odot}$	0	0	Ð		52	$\bigcirc$	$^{\oplus}$	0	$\Theta$	Ð	
8	$\bigcirc$	$^{\odot}$	0	0	Ð		38	lack	$^{\oplus}$	0	$\Theta$	Ð		53	lack	$^{\oplus}$	0	0	Ð	
9	$\bigcirc$	$^{\odot}$	0	0	Ð		39	<b>(A)</b>	$^{\oplus}$	0	0	$\bigcirc$		54	<b>(A)</b>	$^{\oplus}$	0	Θ	Ð	
10	<b>(A)</b>	$^{\oplus}$	0	0	(E)		40	A	B	0	Θ	Ð		55	A	B	0	0	Ð	
11	<b>(A)</b>	B	0	0	⊕		41	<b>(A)</b>	B	0	0	Œ		56	$\bigcirc$	$^{\oplus}$	0	0	Ð	
12	$\bigcirc$	$^{\odot}$	0	$\Theta$	Œ		42	$\bigcirc$	$^{\odot}$	0	0			57	$\bigcirc$	$^{\oplus}$	0	0	(E)	
13	$\bigcirc$	$^{\odot}$	0	0	Ð		43	<b>(A)</b>	$^{\oplus}$	0	$\Theta$	Ð		58	lack	$^{\oplus}$	0	0	Ð	
14	lack	$^{\oplus}$	0		$\odot$		44	$\bigcirc$	$^{\odot}$	0	0	Ð		59	A	$^{\oplus}$	0	0	Œ	
15	<b>(A)</b>	B	0	0	Ð	=	45	<b>(A)</b>	B	0	0	(E)		60	<b>(A)</b>	B	0	0	Ð	•
16	<b>(A)</b>	B	0	0	Œ		<u> </u>	Constru	<u>ık</u>	<u>No. 8</u>	Soalan		<u>Jumlah</u>	Bilangan		<u>l</u>	<u>Kegu</u>	naan (	<u>Guru</u>	
17	$\bigcirc$	B	0	0	Ð								<u>Soalan</u>	Gagal Di	awab					
18	$\bigcirc$	$^{\oplus}$	0	0	Ð		1	K1		1	-5	7	5							
19	$\bigcirc$	$^{\oplus}$	0	0	Œ			=				_								
20	$\triangle$	$^{\oplus}$	0	0	(E)		2	K3		6-	-11		6							
21	$\bigcirc$	B	0	0	Œ		3	K5		12	2-22		11							
21 22	_	B	9 (	9 0	(H)		4	K6		23	3-28	7	6							
23	(A)	B	0	0	(E)		7	110		20	20	_								
24	(A)	B	0	0	Œ		5	K7		29	-35		7							
25	(A)	B	9	0	Ð		6	K10		26	42	7	0						_	
								KIU		30	- 43		8						<u></u>	
26	<b>(A)</b>	B	0	0	(E)		7													
27	<b>(A)</b>	B	0	0	(E)		8					7								
28	$\bigcirc$	B	0	0	(E)							_								
29	<b>(A)</b>	B	0	0	(E)		9													
30	$\bigcirc$	$^{\odot}$	0	0	Œ				I			_					_			